

CDX-M8800/M8805X

SERVICE MANUAL

Ver 1.1 2004. 05

US Model
Canadian Model

CDX-M8800/M8805X

AEP Model

UK Model

E Model

CDX-M8800



Photo: CDX-M8800

- The tuner and CD sections have no adjustments.

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US MODEL)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
23.2 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 5% total harmonic distortion.

CD player section

Signal-to-noise ratio 120 dB
Frequency response 10 – 20,000 Hz
Wow and flutter Below measurable limit

Tuner section

FM

Tuning range 87.5 – 107.9 MHz (US, Canadian model)
87.5 – 108.0 MHz (AEP, UK, E model)
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz/450 kHz
Usable sensitivity 9 dBf
Selectivity 75 dB at 400 kHz
Signal-to-noise ratio 67 dB (stereo),
69 dB (mono)
Harmonic distortion at 1 kHz
0.5% (stereo),
0.3% (mono)
Separation 35 dB at 1 kHz
Frequency response 30 – 15,000 Hz

AM (US, Canadian model)

Tuning range 530 – 1,710 kHz
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz/450 kHz
Sensitivity 30 μ V

Model Name Using Similar Mechanism	CDX-F5500
CD Drive Mechanism Type	MG-611MA-186//K
Optical Pick-up Name	KSS1000E

MW/LW (AEP, UK, E model)

Tuning range MW: 531 – 1,602 kHz
LW: 153 – 279 kHz
Aerial terminal External aerial connector
Intermediate frequency 10.7 MHz/450 kHz
Sensitivity MW: 30 μ V
LW: 40 μ V

Power amplifier section

Outputs Speaker outputs (sure seal connectors)
Speaker impedance 4 – 8 ohms
Maximum power output 52 W $\times$ 4 (at 4 ohms)

General

Outputs Audio output terminals (front/rear)
Subwoofer output terminal (mono)
Power antenna relay
control terminal (US, Canadian model)
Power aerial relay
control terminal (AEP, UK, E model)
Power amplifier control
terminal

– Continued on next page –

FM/AM COMPACT DISC PLAYER

US, Canadian Model

FM/MW/LW COMPACT DISC PLAYER

AEP, UK, E Model

9-877-515-02

2004E04-1

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e Vehicle Company

Published by Sony Engineering Corporation

SONY®

CDX-M8800/M8805X

Inputs	Telephone ATT control terminal Illumination control terminal BUS control input terminal BUS audio input or AUX IN terminal Remote controller input terminal Antenna input terminal (US, Canadian model) Aerial input terminal (AEP, UK, E model)
Tone controls	US, Canadian model: Bass ±10 dB at 62 Hz Treble ±10 dB at 16 kHz AEP, UK, E model: Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Loudness	+8 dB at 100 Hz +2 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 184 mm (7 1/8 × 2 × 7 1/4 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 162 mm (7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d)
Mass	Approx. 1.7 kg (3 lb. 12 oz.)
Supplied accessories	Parts for installation and connections (1 set) Card remote commander RM-X143A (US, Canadian model) RM-X142 (AEP, UK, E model)

Note
This unit cannot be connected to a digital preamplifier or an equalizer.

Design and specifications are subject to change without notice.

SERVICE NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts. The flexible board is easily damaged and should be handled with care.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

NOTES ON LASER DIODE EMISSION CHECK
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

• US, Canadian model

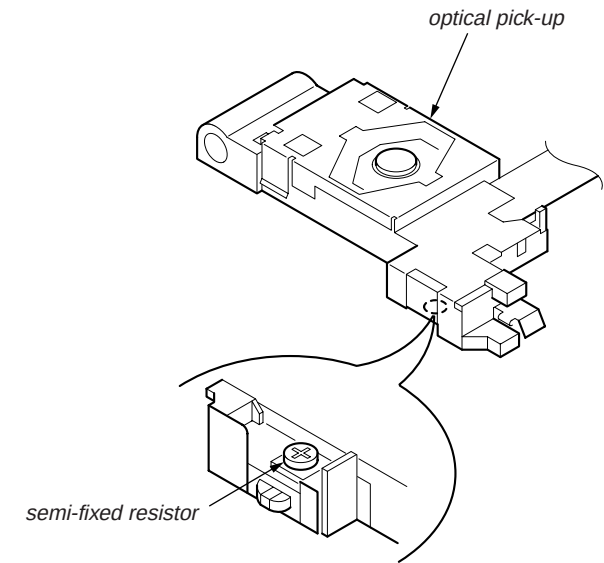
CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

• AEP, UK, E model

CLASS 1
LASER PRODUCT

This label is located on the bottom of the chassis.

If the optical pick-up block is defective, please replace the whole optical pick-up block. Never turn the semi-fixed resistor located at the side of optical pick-up block.



TEST DISCS
This set can playback CD-R and CD-ROM discs. The following test discs should be used to check the capability:

- CD-R test disc TCD-R082LMT (Part No. J-2502-063-1)
- CD-RW test disc TCD-W082L (Part No. J-2502-063-2)

Notes on CD-Rs (recordable CDs)/CD-RWs (rewritable CDs)

This unit can play the following discs:

Type of discs	Label on the disc
Audio CD	 
MP3 files	   

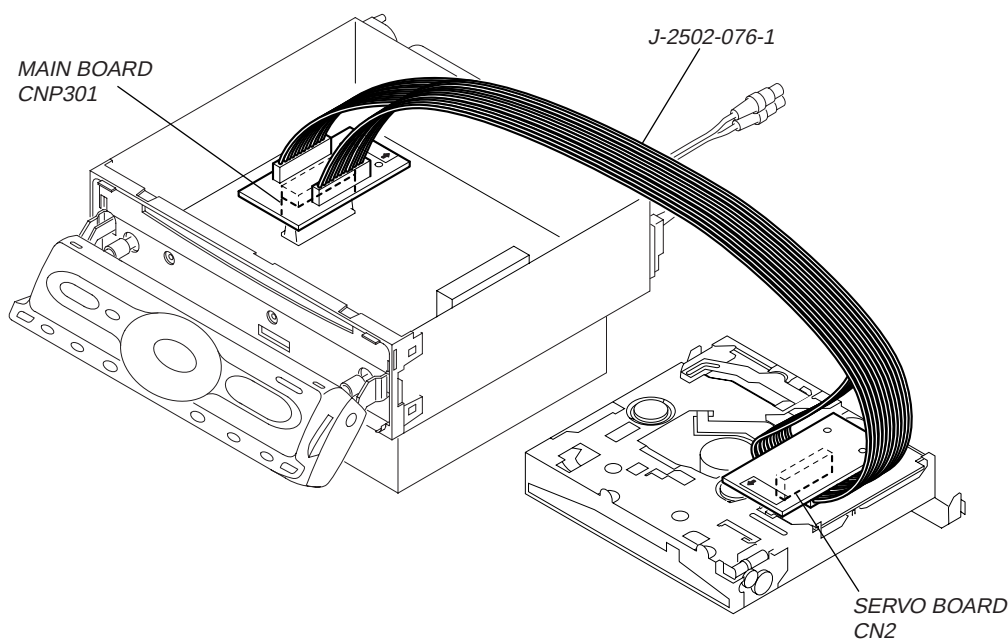
- Some CD-Rs/CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- You cannot play a CD-R/CD-RW that is not finalized*.
- You can play MP3 files recorded on CD-ROMs, CD-Rs, and CD-RWs.
- A CD-R/CD-RW to which a session can be added can be played.

* A process necessary for a recorded CD-R/CD-RW disc to be played on the audio CD player.

EXTENSION CABLE AND SERVICE POSITION

When repairing or servicing this set, connect the jig (extension cable) as shown below.

- Connect the MAIN board (CN751) and the SERVO board (CN2) with the extension cable (Part No. J-2502-076-1).



● UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead. (Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350°C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

- Strong viscosity

Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.

- Usable with ordinary solder

It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

NOTE FOR THE OPENING OF THE FRONT PANEL

In this set, the front panel is lowered to below the bottom face when it is opened.
When servicing the set, place it on a stand having a height of about 2 cm.

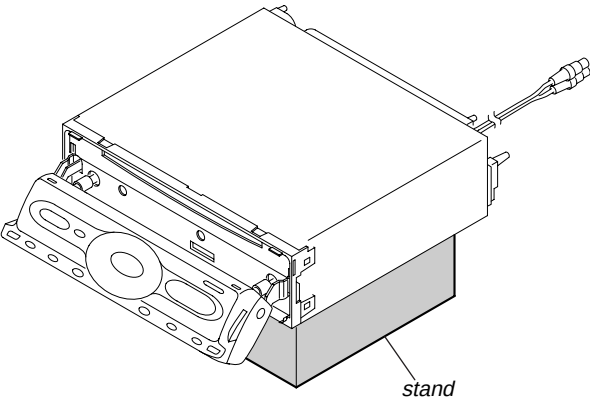


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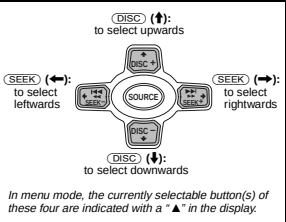
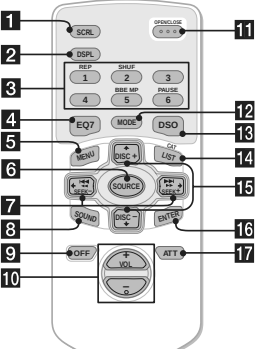
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SECTION 1
GENERAL

This section is extracted
from instruction manual.

Location of controls (US, Canadian Model)

Card remote commander RM-X143A

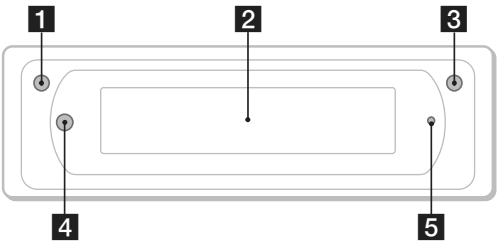


Refer to the pages listed for details.

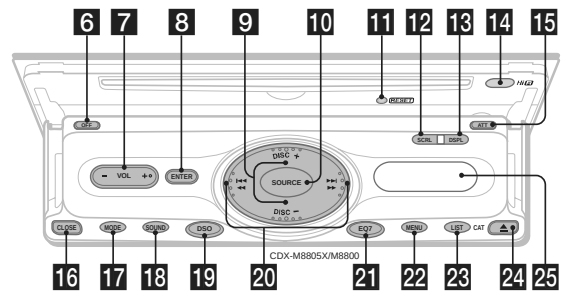
- 1** SCRL (scroll) button **12**
2 DSPL (display mode change) button
12, 14
3 Number buttons
Radio:
To store stations/receive stored stations.
CD/MD:
①: REP 13
②: SHUF 13
⑥: PAUSE*1 11
Sound:
⑤: BBE MP*1 20
4 EQ7 button **22**
5 MENU button
To display the menus.
6 SOURCE (Power on/Radio/CD/MD*2/
AUX*3) button
To select the source.
7 SEEK/AMS (←/→) buttons
To skip tracks/fast-forward, reverse a track/
tune in stations automatically, find a station
manually/select a setting.
8 SOUND button 18, 20

- 9** OFF (Stop/Power off) button 11, 18,
24
10 VOL (+/-) buttons
To turn up or down the volume.
11 OPEN/CLOSE button 10, 11
12 MODE button
To change the operation.
13 DSO button 23
14 LIST (CAT)*4 button 15, 18
15 DISC (ALBUM) (↑/↓) buttons
To receive preset stations/change the disc*5,
skip albums*6/select a menu.
16 ENTER button
To enter a setting.
17 ATT button 20
- *1 Available only when playing back on this unit.
*2 When an optional MD unit is connected.
*3 Available only when an optional Sony portable
device is connected to AUX IN terminal of the unit.
When you connect a Sony portable device and CD/
MD unit(s) at the same time, use the AUX IN
selector.
*4 The CAT button is available only when the XM
tuner is connected.
*5 When an optional CD/MD unit is connected.
*6 Available only when an MP3 file is played.

Main display side



Operation side



The buttons on the unit share the same
functions as those on the card remote
commander.

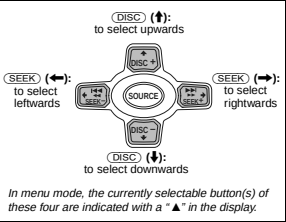
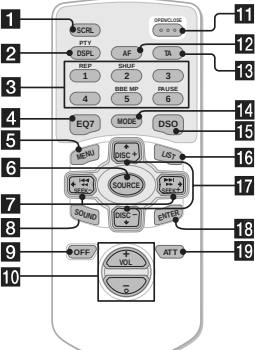
- 1** OPEN button 10, 11
2 Main display window
3 IMAGE button 23
4 Receptor for the card remote
commander
5 RESET button 9
6 OFF (Stop/Power off) button*7
7 VOL (-/+) button
8 ENTER button
9 DISC (ALBUM) (+/-) button
10 SOURCE button

- 12** SCRL (scroll) button
13 DSPL (display mode change) button
14 ATT button
15 CLOSE (front panel close) button 10
16 MODE button
17 SOUND button
18 DSO button
19 SEEK/AMS (←/→) button
20 EQ7 button
21 MENU button
22 LIST (CAT)*8 button
23 ENTER button
24 ▲ (eject) button 11
25 Sub display window

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Location of controls (AEP, UK, E Model)

Card remote commander RM-X142

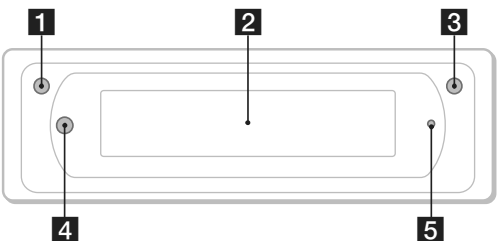


Refer to the pages listed for details.

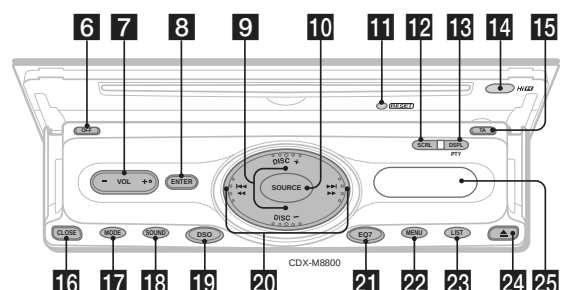
- 1** SCRL (scroll) button **12**
2 DSPL/PTY (display mode change/
programme type) button 12, 14, 17, 20
3 Number buttons
Radio: To store stations/receive stored
stations.
CD/MD: ①: REP 13
②: SHUF 13
⑥: PAUSE*1 11
Sound: ⑤: BBE MP*1 23
4 EQ7 button **25**
5 MENU button
To display the menus.
6 SOURCE (Power on/Radio/CD/MD*2/
AUX*3) button
To select the source.
7 SEEK/AMS (←/→) buttons
To skip tracks/fast-forward, reverse a track/
tune in stations automatically, find a station
manually/select a setting.
8 SOUND button 21, 23
9 OFF (Stop/Power off) button 11, 21,
27

- 10** VOL (+/-) buttons
To turn up or down the volume.
11 OPEN/CLOSE button 10, 11
12 AF button 18, 19
13 TA button 19
14 MODE button
To change the operation.
15 DSO button 26
16 LIST button 15, 17
17 DISC (ALBUM) (↑/↓) buttons
To receive preset stations/change the disc*4,
skip albums*5/select a menu.
18 ENTER button
To enter a setting.
19 ATT button 23
- *1 Available only when playing back on this unit.
*2 When an optional MD unit is connected.
*3 Available only when an optional Sony portable
device is connected to AUX IN terminal of the unit.
When you connect a Sony portable device and CD/
MD unit(s) at the same time, use the AUX IN
selector.
*4 When an optional CD/MD unit is connected.
*5 Available only when an MP3 file is played.

Main display side



Operation side



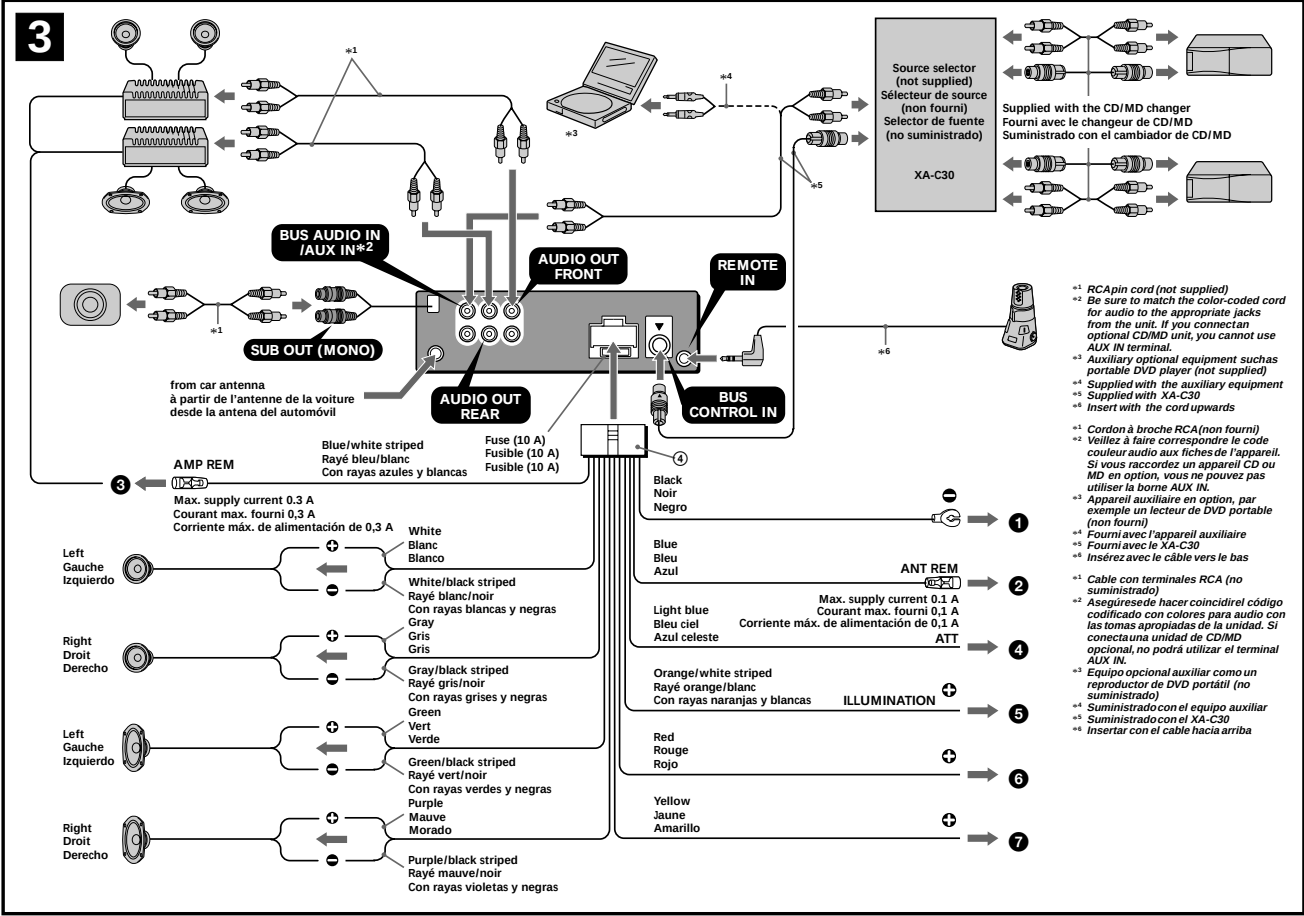
The buttons on the unit share the same
functions as those on the card remote
commander.

- 1** OPEN button 10, 11
2 Main display window
3 IMAGE button 26
4 Receptor for the card remote
commander
5 RESET button 9
6 OFF (Stop/Power off) button*6
7 VOL (-/+) button
8 ENTER button
9 DISC (ALBUM) (+/-) button
10 SOURCE button

- 12** SCRL (scroll) button
13 DSPL/PTY (display mode change/
programme type) button
14 TA button
15 CLOSE (front panel close) button 10
16 MODE button
17 SOUND button
18 DSO button
19 SEEK/AMS (←/→) button
20 EQ7 button
21 MENU button
22 LIST button
23 ENTER button
24 ▲ (eject) button 11
25 Sub display window

continue to next page →

Connections (US, Canadian Model)



Connection diagram (3)

- To a metal surface of the car
First connect the black ground lead, then connect the yellow and red power input leads.
- To the power antenna control lead or power supply lead of antenna booster amplifier
Notes
 - If it is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.
 - When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."
- To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.
- To the interface cable of a car telephone
Be sure to connect the black ground lead to a metal surface of the car first.
- To a car's illumination signal
Be sure to connect the black ground lead to a metal surface of the car first.
- To the +12 V power terminal which is energized in the accessory position of the ignition key switch
Notes
 - If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.
 - Be sure to connect the black ground lead to a metal surface of the car first.
 - When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."
- To the +12 V power terminal which is energized at all times
Be sure to connect the black ground lead to a metal surface of the car first.

Notes on the control and power supply leads

- The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner.
- When your car has built-in FM/AM antenna in the rear/side glass, connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster. For details, consult your dealer.
- A power antenna without a relay box cannot be used with this unit.

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
- Do not connect the speaker terminals to the car speakers or connect the terminals of the right speakers with those of the left speaker.
- Do not connect the ground lead of this unit to the negative (-) terminal of the speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (-) lead for the right and left speakers.
- Do not connect the unit's speaker leads to each other.

Note on connection

If speaker and amplifier are not connected correctly, "Failure" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Schéma de raccordement (3)

- À un point métallique de la voiture
Brancher d'abord le fil de masse/noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.
- Vers le fil de commande de l'antenne électrique ou le fil d'alimentation de l'amplificateur d'antenne
Remarques
 - Il n'est pas nécessaire de raccorder ce fil s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.
 - Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les fils de commande et d'alimentation ».
- Au niveau du AMP REMOTE IN de l'amplificateur de puissance en option
Ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.
- Vers le cordon de liaison d'un téléphone de voiture
- Vers le connecteur du signal d'éclairage de la voiture
Raccordez d'abord le fil de masse/noir à un point métallique du véhicule.
- À la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires
Remarques
 - S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence.
 - Raccordez d'abord le fil de masse/noir à un point métallique du véhicule.
 - Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les fils de commande et d'alimentation ».
- À la borne +12 V qui est alimentée en permanence
Raccordez d'abord le fil de masse/noir à un point métallique du véhicule.

Remarques sur les fils de commande et d'alimentation

- Le fil de commande de l'antenne électrique (bleu) fournit une alimentation de +12 V CC lorsque vous mettez la radio sous tension.
- Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, raccordez le fil de commande de l'antenne (bleu) ou l'entrée d'alimentation des accessoires (rouge) à la borne d'alimentation de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre détaillant.
- Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.

Raccordement pour garantir la conservation de la mémoire

Lorsque le fil d'entrée d'alimentation jaune est raccorder, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur le raccordement des haut-parleurs

- Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.
- Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité électrique adéquate pour éviter de les endommager.
- Ne raccordez pas les bornes du système de haut-parleurs au châssis de la voiture et ne raccordez pas les bornes des haut-parleurs droit à celles du haut-parleur gauche.
- Ne raccordez pas le câble de masse de cet appareil à la borne négative (-) de l'enceinte.
- N'essayez pas de raccorder les haut-parleurs en parallèle.
- Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.
- Pour éviter tout dysfonctionnement, n'utilisez pas les fils des haut-parleurs intégrés installés dans votre voiture si l'appareil partage un fil négatif commun (-) pour les haut-parleurs droit et gauche.
- Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.

Remarque sur le raccordement

Si les haut-parleurs et l'amplificateur ne sont pas raccordés correctement, le message « Failure » s'affiche. Dans ce cas, assurez-vous que les haut-parleurs et l'amplificateur sont bien raccordés.

Diagrama de conexión (3)

- A una superficie metálica del automóvil
Realice primero la conexión a masa negra y después las conexiones de entrada de alimentación amarilla y roja.
- Al cable de control de la antena motorizada o a la conexión de fuente de alimentación del amplificador de señal de la antena
Notas
 - Si no se dispone de antena motorizada ni de amplificador de señal de la antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.
 - Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".
- Para conectar a AMP REMOTE IN del amplificador de potencia opcional
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.
- Al cable de interfaz de un teléfono para automóvil
- A una señal de iluminación del automóvil
Asegúrese de realizar primero la conexión a masa negra a una superficie metálica del automóvil.
- Al terminal de alimentación de +12 V que recibe energía en la posición de accesorio del interruptor de la llave de encendido
Notas
 - Si no hay posición de accesorio, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción.
 - Asegúrese de realizar primero la conexión a masa negra a una superficie metálica del automóvil.
 - Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".
- Al terminal de alimentación de +12 V que recibe energía sin interrupción
Asegúrese de realizar primero la conexión a masa negra a una superficie metálica del automóvil.

Notas sobre los cables de control y de fuente de alimentación

- El cable de control de la antena motorizada (azul) suministrará cc de +12 V cuando conecte la alimentación del sintonizador.
- Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero o lateral, conecte el cable de control de la antena motorizada (azul) o a la conexión de entrada de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de señal de la antena existente. Para obtener más información, consulte a su distribuidor.
- Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.

Conexión para protección de la memoria

Si realiza la conexión de entrada de alimentación amarilla, el circuito de la memoria recibirá siempre alimentación, aunque apague la llave de encendido.

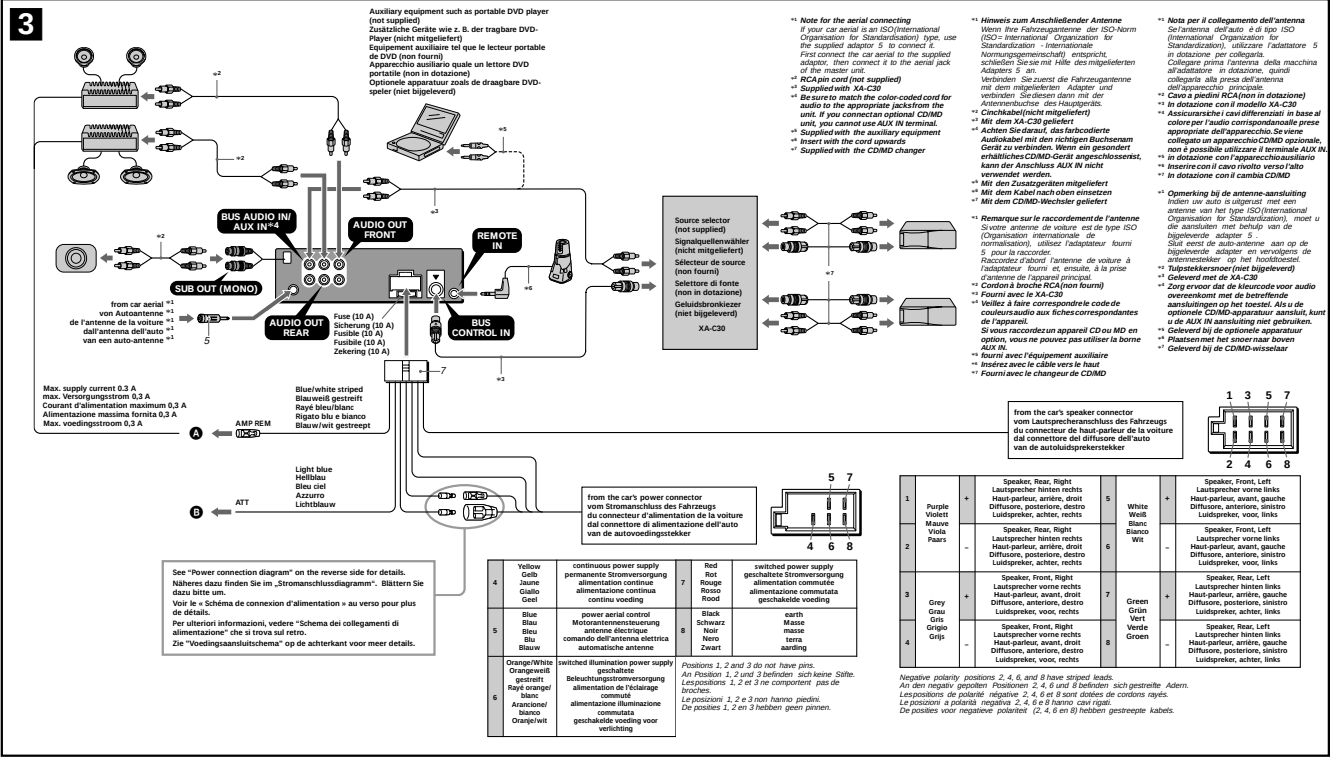
Notas sobre la conexión de los altavoces

- Antes de conectar los altavoces, desconecte la alimentación de la unidad.
- Utilice altavoces con una impedancia de 4 a 8 Ω con la capacidad de potencia adecuada para evitar que se dañen.
- No conecte los terminales de altavoz al chasis del automóvil, ni conecte los terminales del altavoz derecho con los del izquierdo.
- No realice la conexión a masa de esta unidad al terminal negativo (-) del altavoz.
- No intente conectar los altavoces en paralelo.
- Conecte solamente altavoces pasivos. Si conecta altavoces activos (con amplificadores incorporados) a los terminales de altavoz, puede dañar la unidad.
- Para evitar fallos de funcionamiento, no utilice los cables de altavoz incorporados instalados en el automóvil si su unidad comparte un cable negativo común (-) para los altavoces derecho e izquierdo.
- No conecte los cables de altavoz de la unidad entre sí.

Nota sobre la conexión

Si el altavoz y el amplificador no están conectados correctamente, aparecerá « Failure » en la pantalla. Si es así, compruebe la conexión de ambos dispositivos.

Connections (AEP, UK Model)



Connection diagram (3)

- 1 to AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.
2 to the interface cable of a car telephone

Warning

If you have a power aerial without a relay box, connecting this unit with the supplied power connecting lead 6 may damage the aerial.

Notes on the control leads

- The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner, or when you activate the AF (Alternative Frequency) or TA (Traffic Announcement) function.
- When your car has built-in FM/AM/LW aerial in the rearview glass, connect the power aerial control lead (blue) to the accessory power input lead (red) to the power terminal of the existing aerial.
- For further details, consult your dealer.
- A power aerial without a relay box cannot be used with this unit.

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid damage.
- Do not connect the speaker terminals to the car chassis or connect the terminals of the right speakers with those of the left speaker.
- Do not connect the earth lead of this unit to the negative (-) terminal of the speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (-) lead for the right and left speakers.
- Do not connect the unit's speaker leads to each other.

Note on connection

If speaker and amplifier are not connected correctly, "Failure" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Anschlussdiagramm (3)

- 1 An AMP REMOTE IN des gesondert erhältlichen Endverstärkers
Dieser Anschluss ist ausschließlich für Verstärker gedacht.
Schließen Sie nichts anderes daran an. Andernfalls kann das Gerät beschädigt werden.
2 An Schnittstellenkabel eines Autotelefons

Warnung

Wenn Sie eine Motorantenne ohne Relaiskassette verwenden, kann durch Anschließen dieses Geräts mit dem mitgelieferten Stromversorgungs-kabel 6 die Antenne beschädigt werden.

Hinweise zu den Steuerleitungen

- Die Motorantennen-Steuerleitung (blau) liefert +12 V Gleichstrom, wenn Sie den Tuner einschalten oder die AF- (Alternativfrequenzsuche) oder die TA-Funktion (Verkehrsinformationen) aktivieren.
- Wenn das Fahrzeug mit einer in der Heck-/Seitenfensterscheibe integrierten LW/FM/AM/LW-Antenne ausgestattet ist, schließen Sie die Motorantennen-Steuerleitung (blau) oder die Zubehörstromversorgungsleitung (rot) an den Stromversorgungsanschluss des vorhandenen Antennenverstärkers an. Näheres dazu erfahren Sie bei Ihrem Händler.
- Es kann nur eine Motorantenne mit Relaiskassette angeschlossen werden.

Stromversorgung des Speichers

Wenn die gelbe Stromversorgungsleitung angeschlossen ist, wird der Speicher stets (auch bei ausgeschalteter Zündung) mit Strom versorgt.

Hinweise zum Lautsprecheranschluss

- Schließen Sie das Gerät aus, bevor Sie die Lautsprecher anschließen.
- Verwenden Sie Lautsprecher mit einer Impedanz zwischen 4 und 8 Ohm und ausreichender Leistungsfähigkeit. Ansonsten können die Lautsprecher beschädigt werden.
- Verbinden Sie die Lautsprecheranschlüsse nicht mit dem Wagenchassis und verbinden Sie auch nicht die Anschlüsse des rechten mit denen des linken Lautspeichers.
- Verbinden Sie die Massenschaltung dieses Geräts nicht mit dem negativen (-) Lautsprecheranschluss.
- Verbinden Sie nicht, Lautsprecher parallel anschließen.
- Verbinden Sie nicht, Lautsprecher parallel anschließen. Schließen Sie keine Aktivlautsprecher (Lautsprecher mit eingebauten Verstärkern) an, da das Gerät sonst beschädigt werden könnte.
- Am Fahrzeugkabel zu vermeiden, verwenden Sie nicht die im Fahrzeug installierten, integrierten Lautsprecherkabel, wenn am Ende eine gemeinsame negative (-) Leitung für den rechten und den linken Lautsprecher verwendet wird.
- Verbinden Sie nicht die Lautsprecherkabel des Geräts miteinander.

Hinweis zum Anschließen

Wenn Lautsprecher und Verstärker nicht richtig angeschlossen sind, erscheint "Failure" im Display. Vergewissern Sie sich in diesem Fall, dass Lautsprecher und Verstärker richtig angeschlossen sind.

Schémas de connexion (3)

- 1 Au niveau du AMP REMOTE IN d'un amplificateur de puissance facultatif
Ce raccordement est seulement pour les amplificateurs. Le raccordement à tout autre système peut endommager l'appareil.
2 Vers le cordon de liaison d'un téléphone de voiture

Avvertimento

Se si dispone di una antenna elettrica senza bobine di relai, se il branchment de cet appareil au moyen du cordon d'alimentation fourni 6 risque d'endommager l'antenne.

Remarques sur les fils de commande

- Le fil de commande (bleu) fournit du courant continu de +12 V lorsque vous mettez le tuner sous tension ou lorsque vous activez la fonction AF (fréquence alternative) ou la TA (informations circulation).
- Lorsque votre voiture est équipée d'une antenne FM/AM (PCL) LW (G3) intégrée dans la vitre arrière, raccordez le fil de commande de l'antenne (bleu) ou l'entrée d'alimentation des accessoires (rouge) au bornier de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre revendeur.
- Une antenne électrique sans bobines de relai ne peut pas être utilisée avec cet appareil.

Conseils pour la conservation de la mémoire

Lorsque le fil d'entrée d'alimentation jaune est connecté, le circuit de la mémoire est alimenté en permanence même si la clé de contact est en position d'arrêt.

Remarques sur la connexion des haut-parleurs

- Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.
- Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms et une capacité adéquate sous peine de les endommager.
- Né pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes des haut-parleur droit à celles du haut-parleur gauche.
- Né pas raccorder le câble de masse de cet appareil à la borne négative (-) du haut-parleur.
- Né pas tenter de raccorder les haut-parleurs en parallèle.
- Né pas connecter d'enceintes actives (avec amplificateurs intégrés) aux bornes d'enceinte de cet appareil, pour éviter d'endommager l'appareil. Veillez à raccorder des enceintes passives uniquement.
- Pour éviter tout dysfonctionnement, n'utilisez pas les fils des haut-parleurs intégrés installés dans votre voiture si l'appareil dispose d'un fil négatif commun (-) pour les haut-parleurs droit et gauche.
- Né pas raccorder pas entre eux les cordons des haut-parleurs de l'appareil.

Remarque sur le raccordement

Si les enceintes et l'amplificateur ne sont pas raccordés correctement, le message "Failure" s'affiche. Dans ce cas, assurez-vous que les enceintes et l'amplificateur sont raccordés correctement.

Schema di collegamento (3)

- 1 A AMP REMOTE IN di un amplificatore di potenza opzionale
Questo collegamento è riservato esclusivamente agli amplificatori. Non collegare un tipo di sistema diverso onde evitare di causare danni all'apparecchio.
2 Al cavo di interfaccia di un telefono per auto

Avvertenza

Quando si collega l'apparecchio con il cavo di alimentazione in dotazione 6, si potrebbe danneggiare l'antenna elettrica se questa è priva di scabbiola relé.

Note sui cavi di controllo

- Il cavo (blu) di controllo dell'antenna elettrica fornisce l'alimentazione pari a +12 V CC quando si attiva il sintonizzatore oppure la funzione TA (notiziario su traffico) o AF (frequenza circolazione).
- Se l'automobile è dotata di antenna FM/AM/LW incorporata nel vetro posteriore, collegare il cavo (blu) di controllo dell'alimentazione elettrica o il cavo (rosso) di ingresso dell'alimentazione accessoria al terminale di alimentazione del preamplificatore dell'antenna esistente. Per ulteriori informazioni, consultare il proprio rivenditore.
- Non è possibile usare un'antenna elettrica senza scabbiola a relé con questo apparecchio.

Consigli per la conservazione della memoria

Quando il filo di ingresso alimentazione giallo è collegato, viene sempre fornita alimentazione al circuito di memoria anche quando l'automobile è accesa o spenta.

Note sul collegamento dei diffusori

- Prima di collegare i diffusori, spegnere l'apparecchio.
- Usare diffusori di impedenza compresa tra 4 e 8 ohm e con capacità di potenza adeguata, altrimenti i diffusori potrebbero venire danneggiati.
- Non collegare i terminali del sistema diffusori al telaio dell'auto e non collegare i terminali dei diffusori dentro a quelli del diffusore sinistro.
- Non collegare il cavo di terra di questo apparecchio al terminale negativo (-) dei diffusori.
- Non collegare i diffusori in parallelo.
- Assicurarsi di collegare soltanto diffusori passivi, poiché il collegamento di diffusori attivi, dotati di amplificatori incorporati, ai terminali dei diffusori potrebbe danneggiare l'apparecchio.
- Per evitare problemi di funzionamento, non utilizzare i cavi dei diffusori incorporati installati nell'automobile. Se l'apparecchio condivide un cavo comune negativo (-) per i diffusori destro e sinistro.
- Non collegare fra loro i cavi dei diffusori dell'apparecchio.

Nota sul collegamento

Se l'amplificatore e il diffusore non sono collegati correttamente, il messaggio "Failure" viene visualizzato nel display. In tal caso, accertarsi che l'amplificatore e il diffusore siano collegati correttamente.

Aansluitschema (3)

- 1 Naar AMP REMOTE IN van een optionele vermogensversterker
Deze aansluiting is alleen bedoeld voor versterkers. Door een ander systeem aan te sluiten kan het apparaat worden beschadigd.
2 Naar het interface-ener van een auto-telefoon

Opgelet

Indien u een elektrische antenne hebt zonder relaiskast, kan het aansluiten van deze eenheid met het bijgeleverde netsnoer 6 de antenne beschadigen.

Opmerkingen betreffende de aansluitingen

- De antennevoedingsschakel (blauw) levert +12 V gelijkstroom wanneer u de tuner inschakelt of de AF (Alternatieve Frequentie) of de TA (Verkeersinformatie) functie activeert.
- Wanneer uw auto is uitgerust met een FM/AM/LW-antenne in de achterruitvoorzicht, moet u de antennevoedingsschakel (blauw) of de hulpvoedingsschakel (rood) aansluiten op de voedingsgang van de bestaande antenneversterker. Raadpleeg uw dealer voor meer details.
- Met dit apparaat is het niet mogelijk een automatische antenne zonder relaiskast te gebruiken.

Instanhouden van het geheugen

Zolang de gele voedingskabel is aangesloten, blijft de stroomvoorziening van het geheugen intact, ook wanneer het contact van de auto wordt afgebroken.

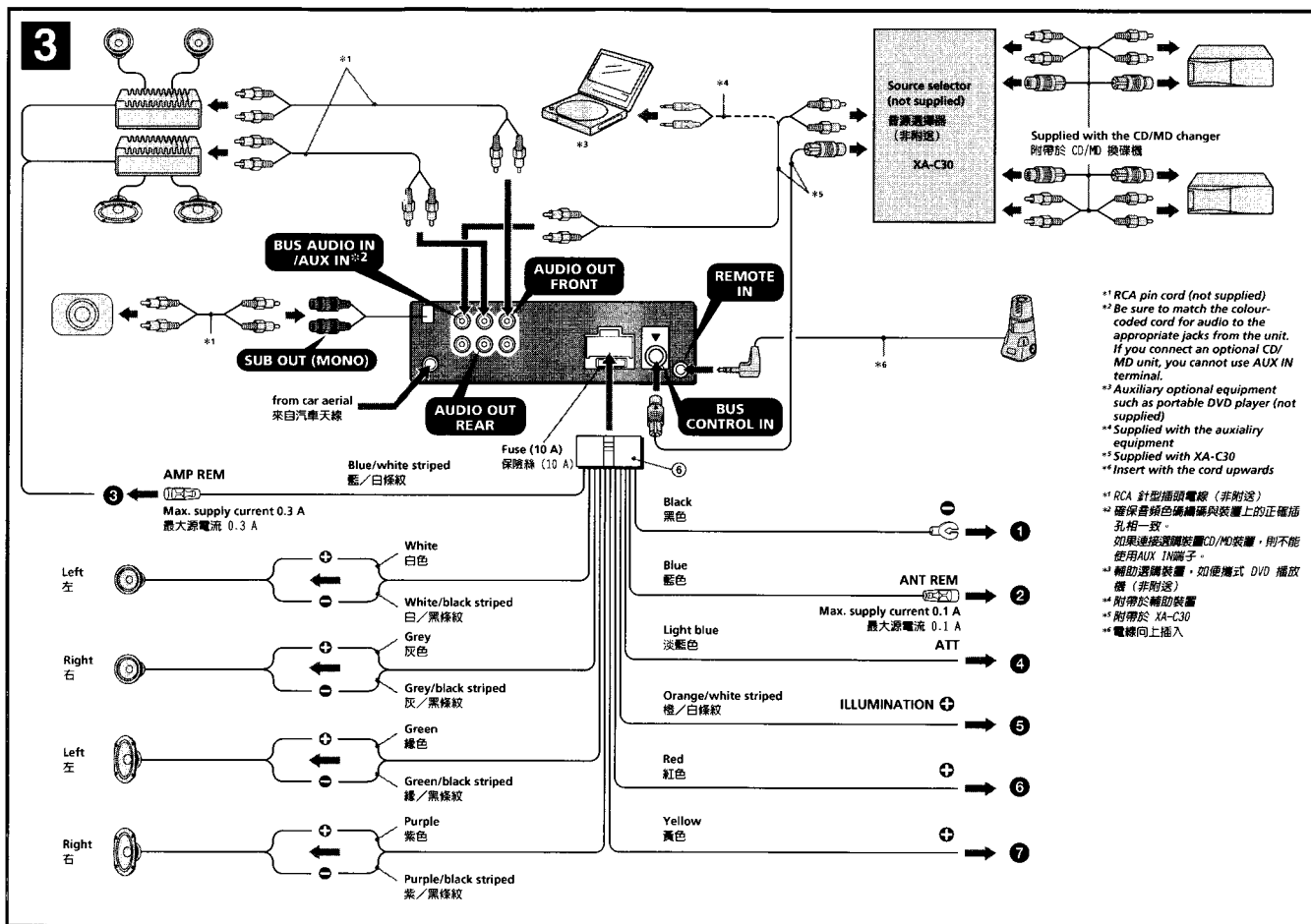
Opmerkingen betreffende het aansluiten van de luidsprekers

- Zorg dat het apparaat is uitgeschakeld, alvorens de luidsprekers aan te sluiten.
- Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en niet op dat die het vermogen van de versterker kunnen overtroffen. Als de meet verzuimd, kunnen de luidsprekers ernstig beschadigd raken.
- Verbind in geen geval de aansluitingen van de luidsprekers met het chassis van de auto en sluit de aansluitingen van de rechter en linker luidspreker niet op elkaar aan.
- Verbind de aansluitingen van dit apparaat niet met de negatieve (-) aansluiting van de luidspreker.
- Probeer niet de luidsprekers parallel aan te sluiten.
- Sluit geen actieve luidsprekers (met ingebouwde versterkers) aan op de luidspreker-aansluiting van dit apparaat. Dit zal leiden tot beschadiging van het apparaat. Sluit dus altijd uitsluitend luidsprekers zonder ingebouwde versterker aan.
- Om crosstalk te vermijden mag u de bestaande luidsprekerbedrading in uw auto niet gebruiken wanneer er een antennevoedingsschakel negatieve (-) draad is voor de rechter en linker luidsprekers.
- Verbind de luidsprekerdraden niet met elkaar.

Opmerking over aansluiten

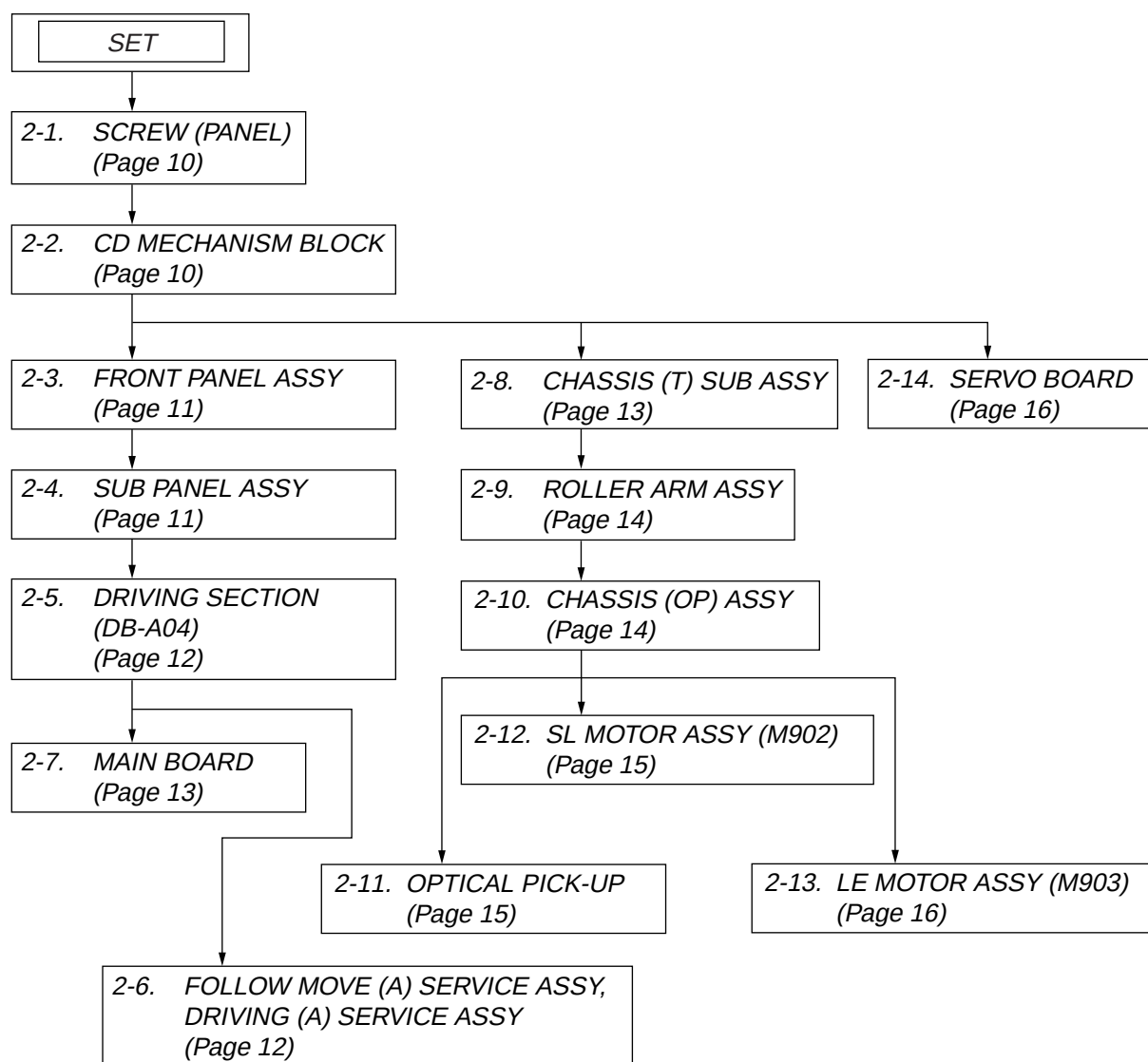
Als de luidspreker en versterker niet correct zijn aangesloten, wordt "Failure" in het display weergegeven. In dit geval moet u zorgen dat de luidspreker en versterker correct zijn aangesloten.

Connections (E Model)



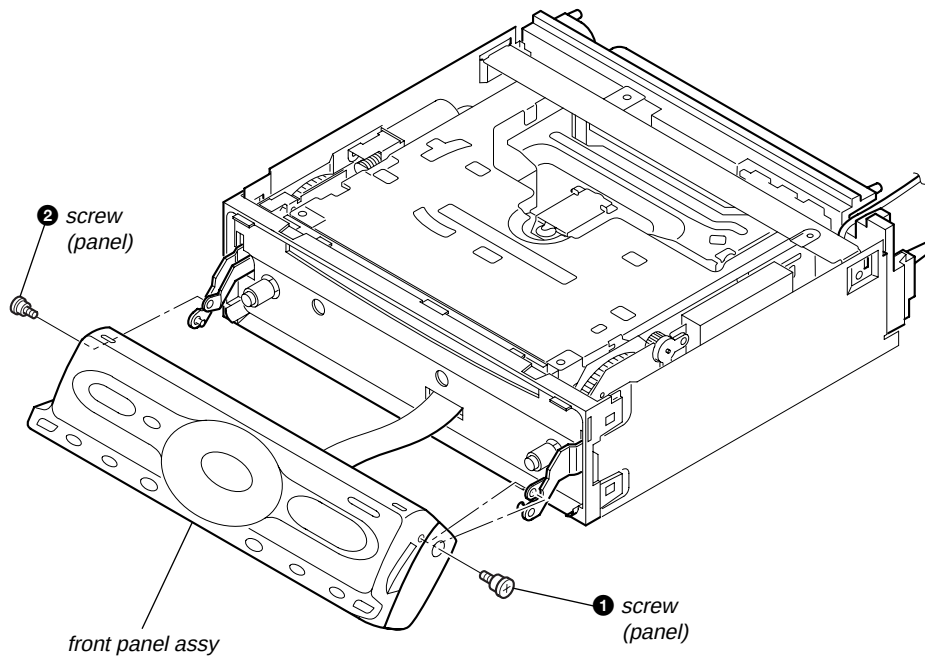
SECTION 2 DISASSEMBLY

Note : This set can be disassemble according to the following sequence.

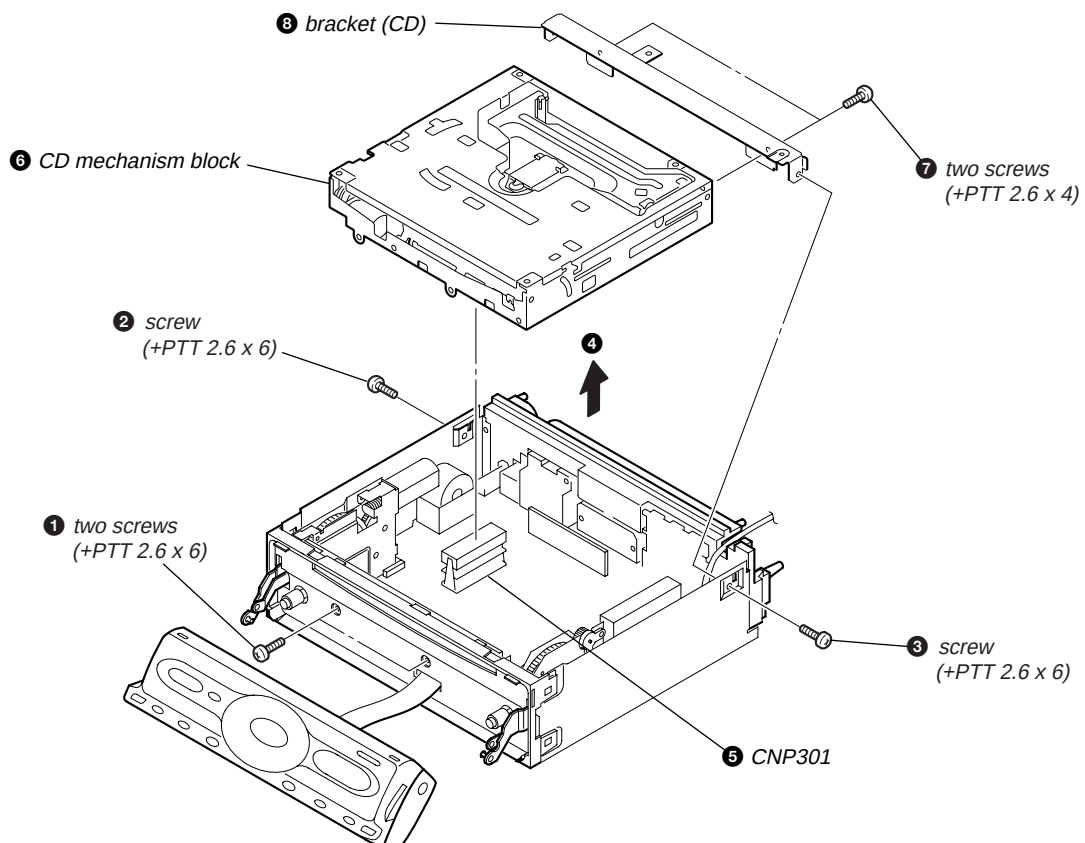


Note : Follow the disassembly procedure in the numerical order given.

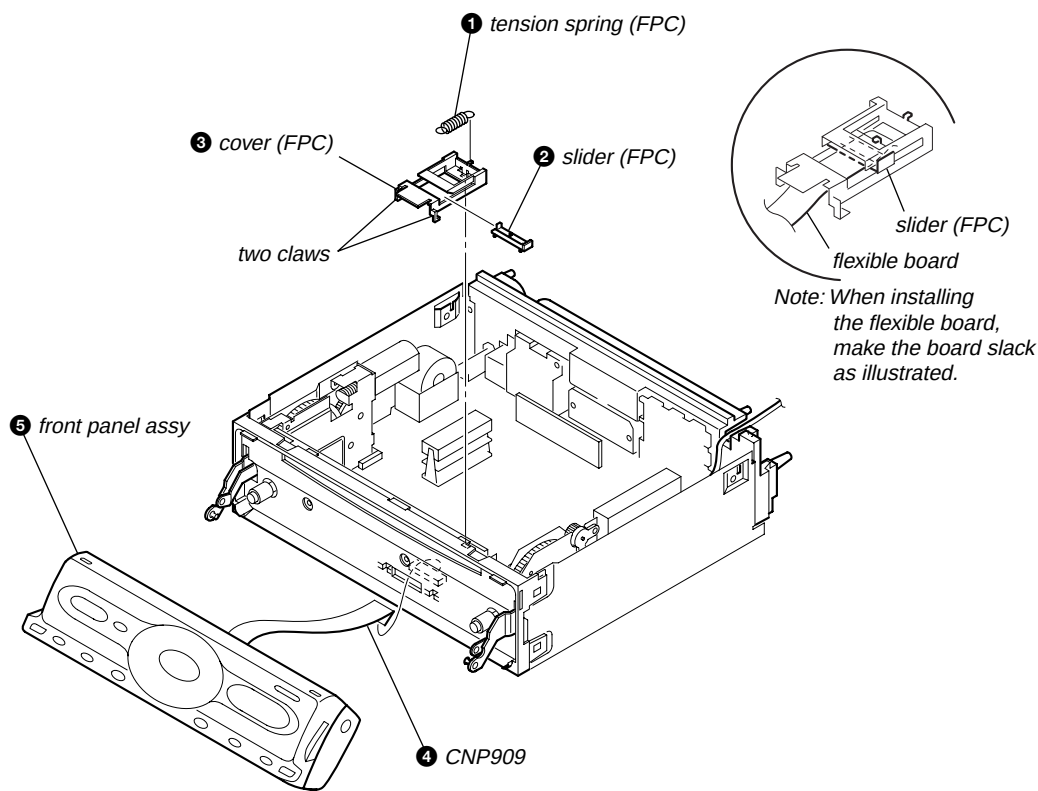
2-1. SCREW (PANEL)



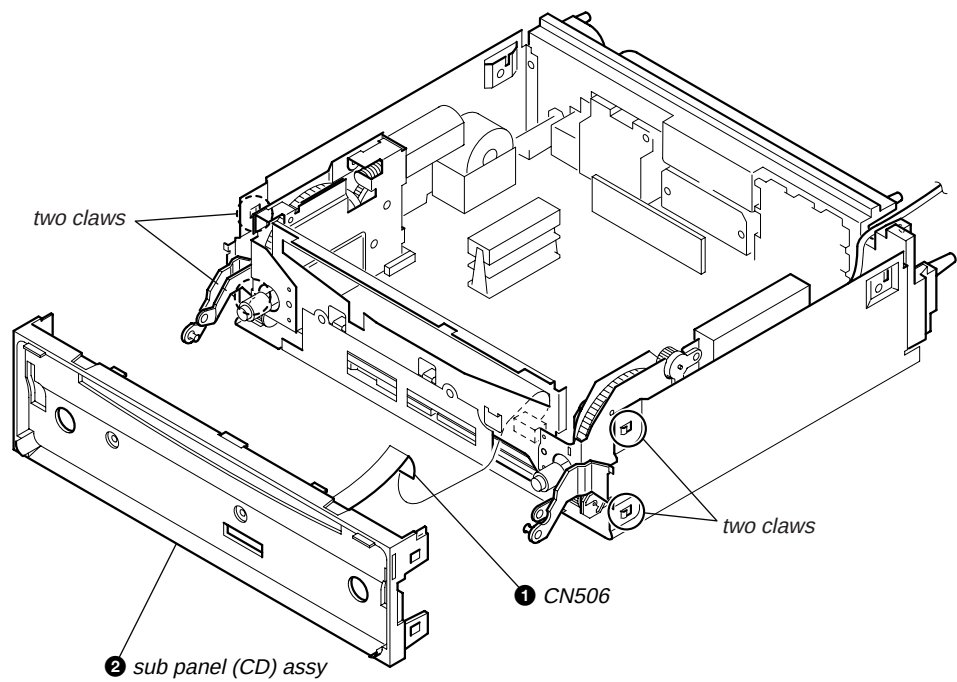
2-2. CD MECHANISM BLOCK



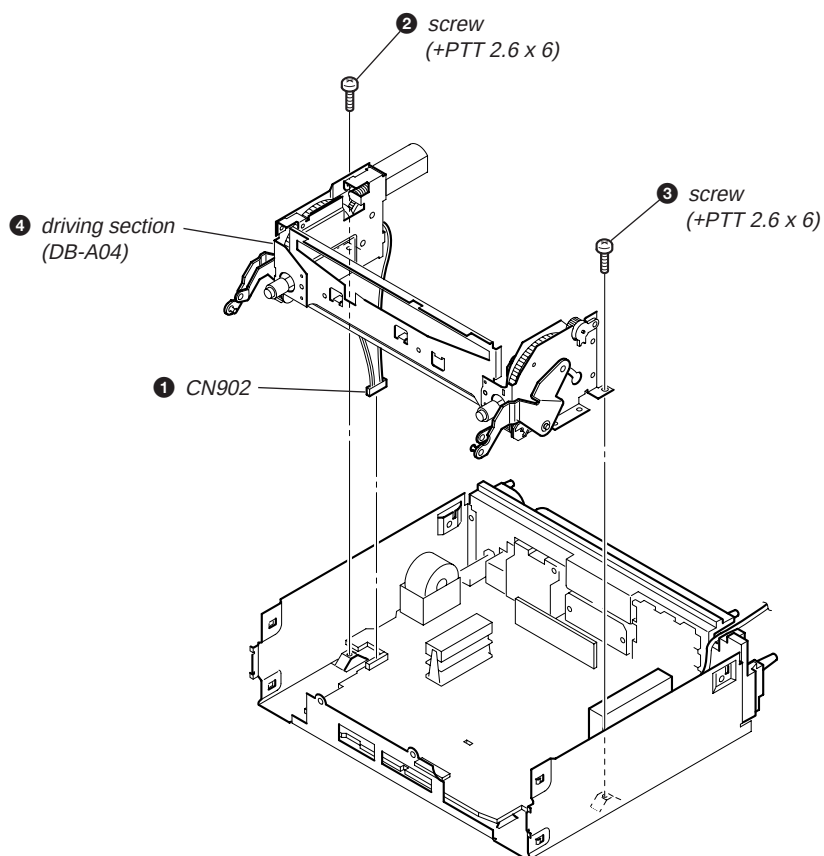
2-3. FRONT PANEL ASSY



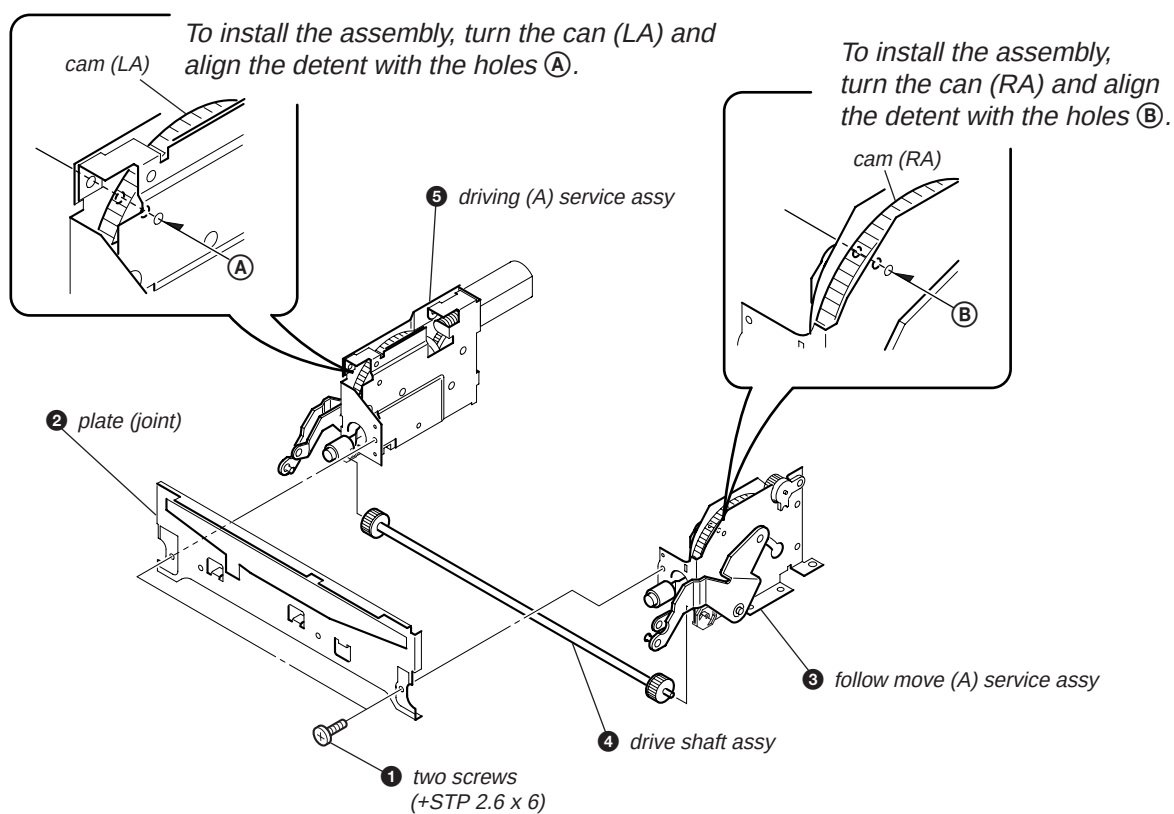
2-4. SUB PANEL ASSY



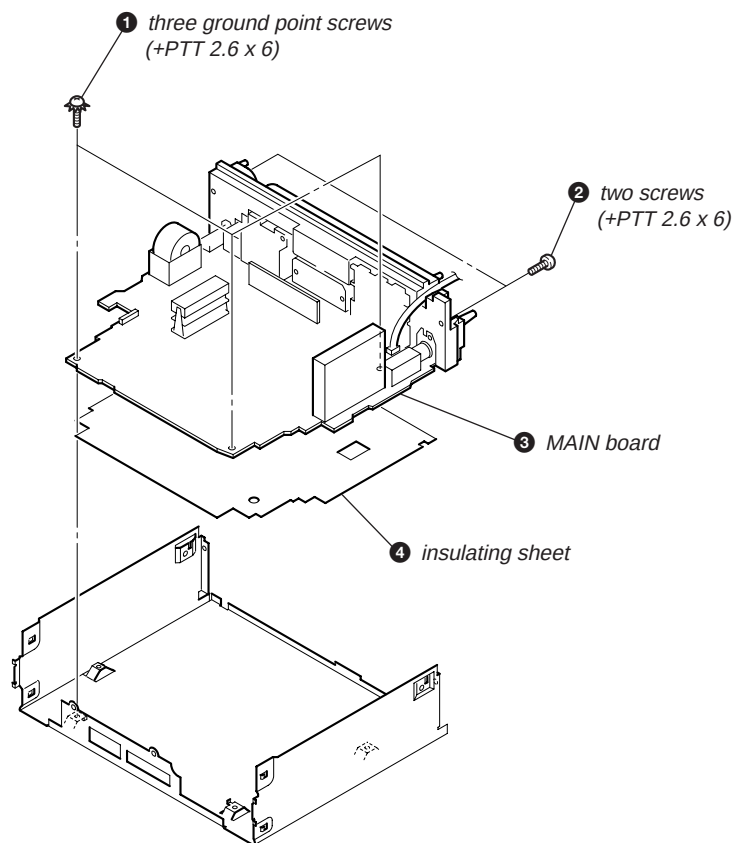
2-5. DRIVING SECTION (DB-A04)



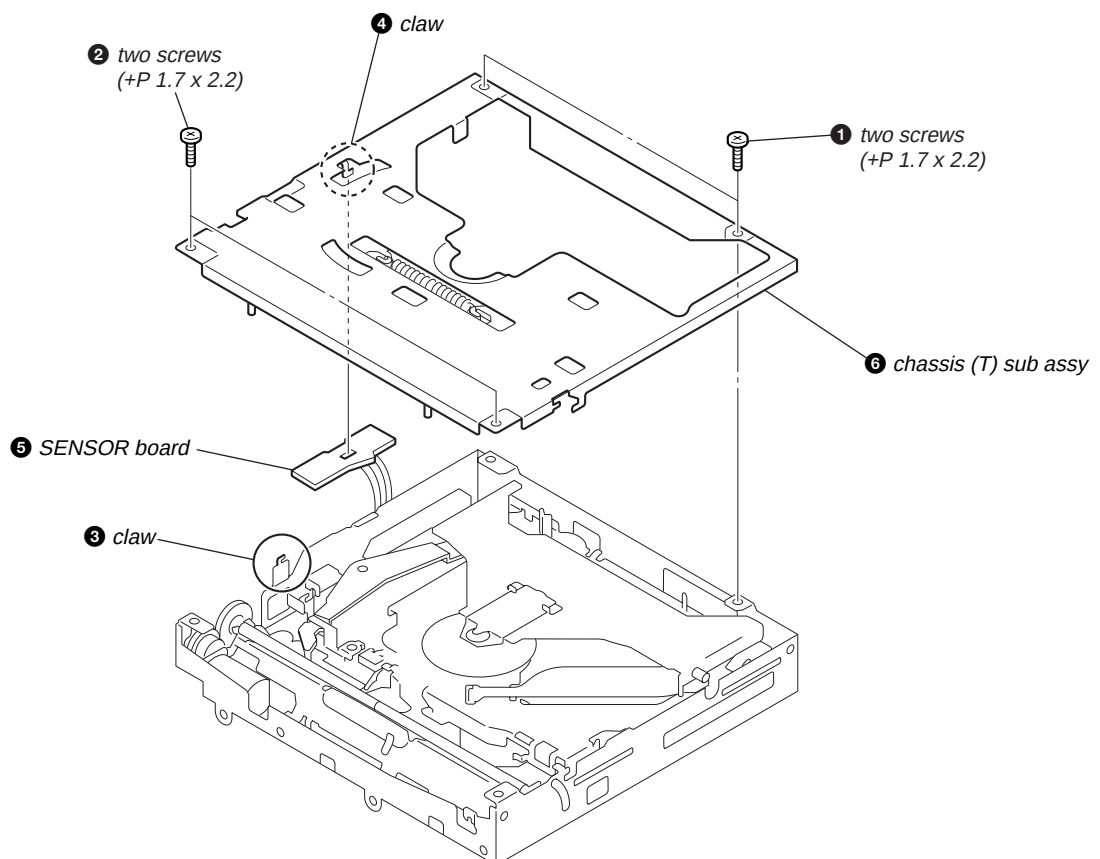
2-6. FOLLOW MOVE (A) SERVICE ASSY, DRIVING (A) SERVICE ASSY



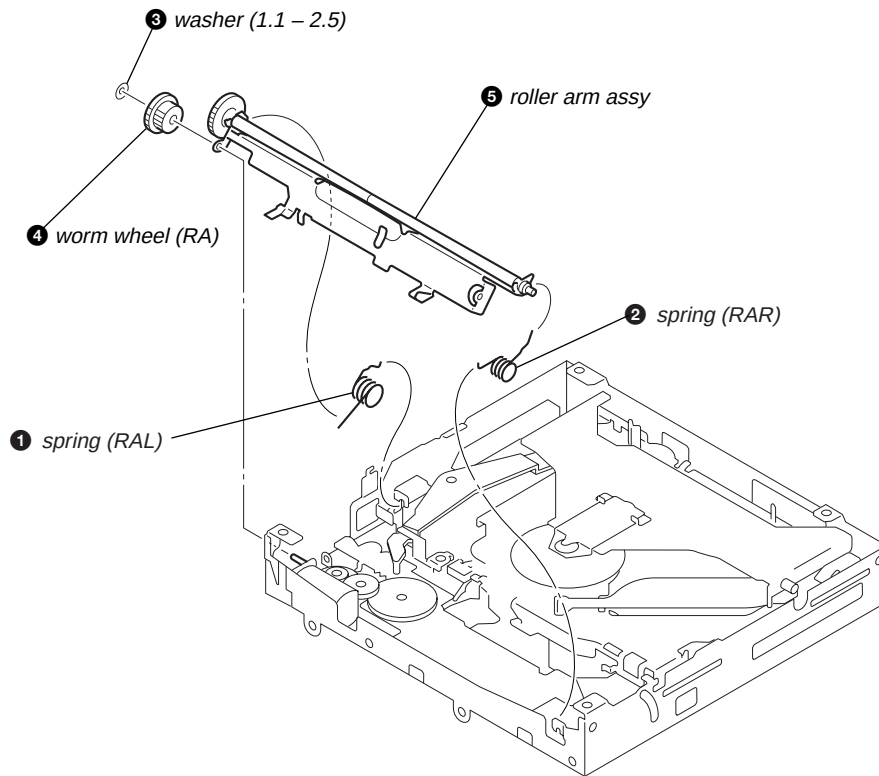
2-7. MAIN BOARD



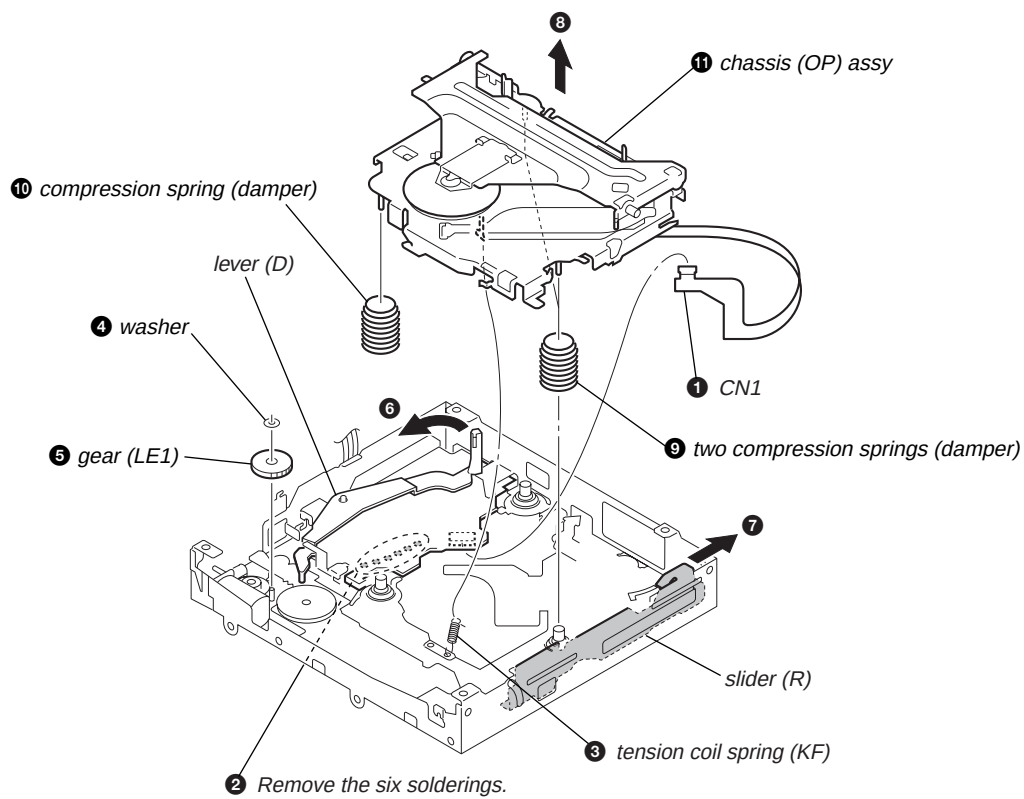
2-8. CHASSIS (T) SUB ASSY

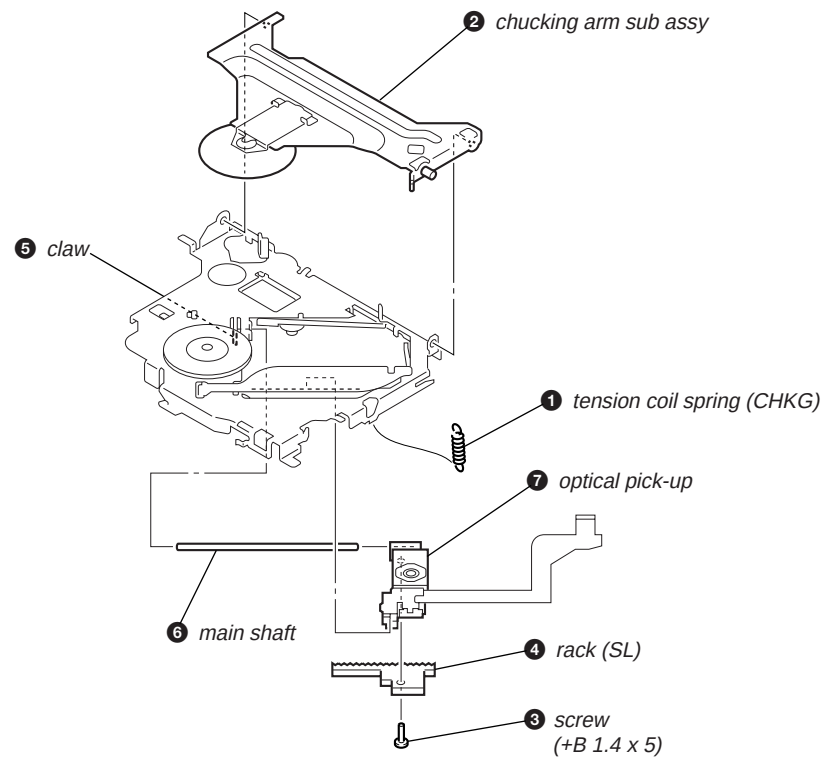
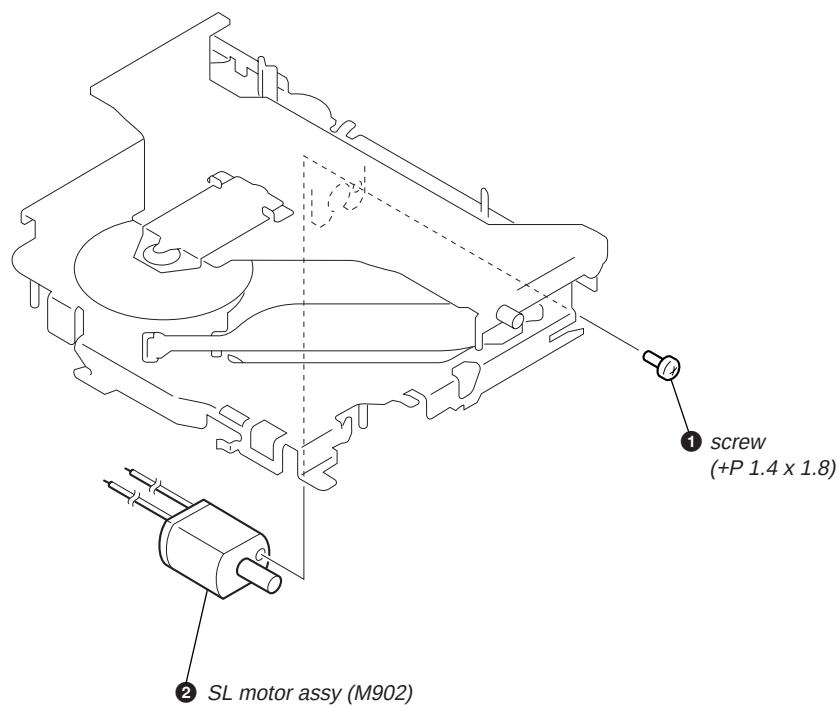


2-9. ROLLER ARM ASSY

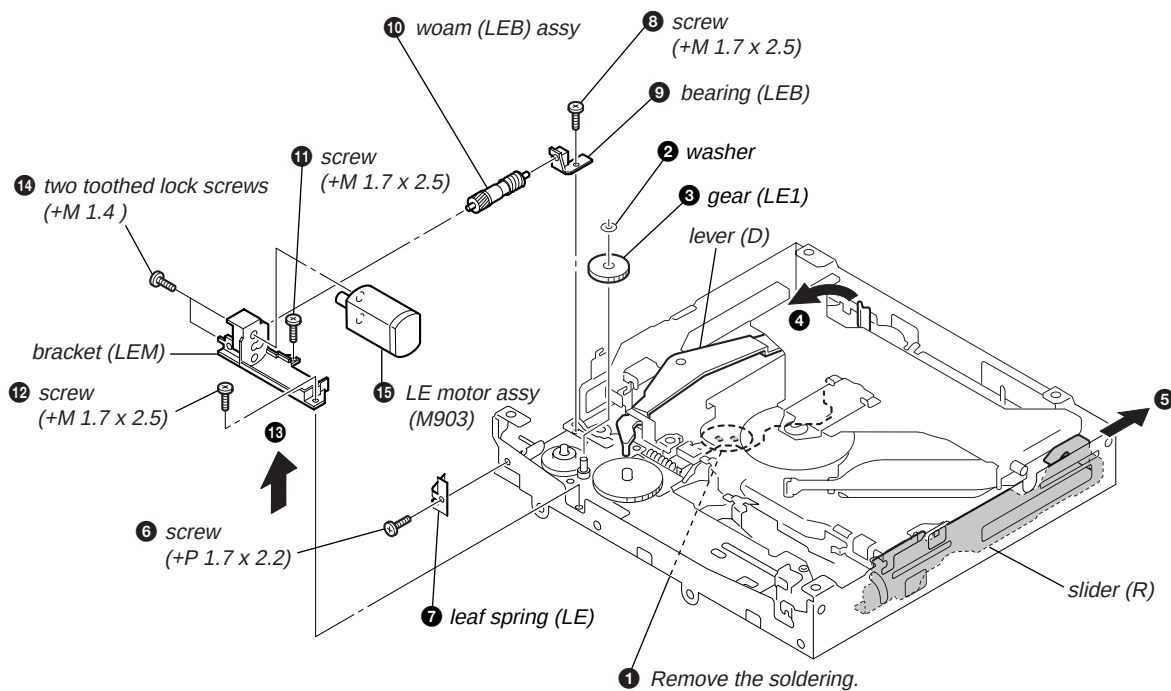


2-10. CHASSIS (OP) ASSY

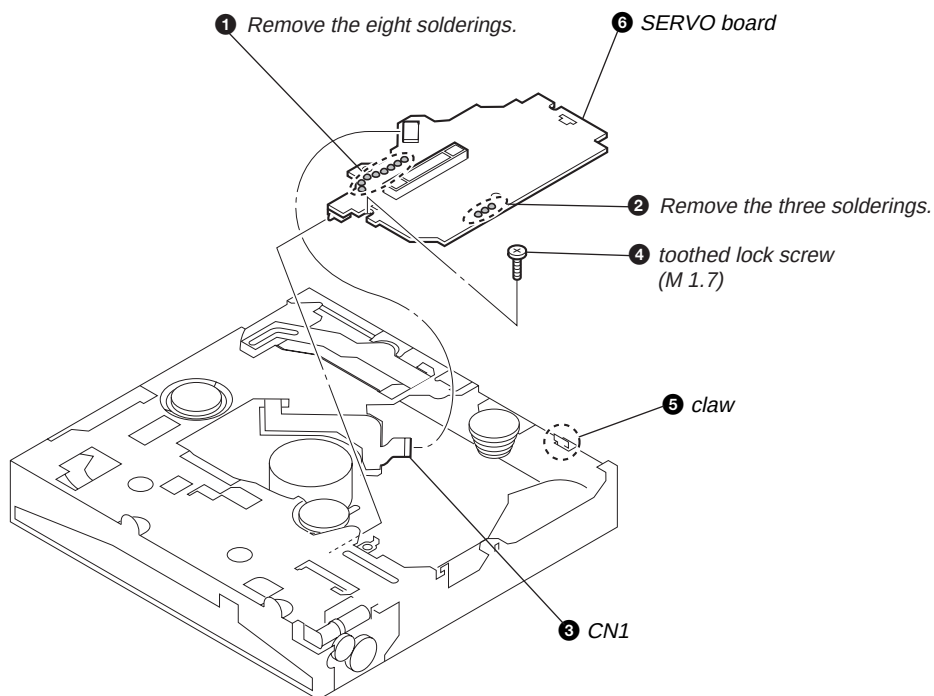


2-11. OPTICAL PICK-UP**2-12. SL MOTOR ASSY (M902)**

2-13. LE MOTOR ASSY (M903)



2-14. SERVO BOARD



SECTION 3 DIAGRAMS

3-1. IC PIN DESCRIPTIONS

• IC303 M30624MGP-124GP (SYSTEM CONTROL) (MAIN Board (3/4))

Pin No.	Pin Name	I/O	Pin Description
1	SIRCS	I	Remote control data input
2	FP_CTRL	—	Not used. (Open)
3	NC	O	Not used. (Open)
4	NC	I	Not used. (Open)
5	NC	O	Not used. (Open)
6	BYTE	I	L fixed terminal
7	CNVSS	I	Flash write-in signal input
8	XIN	I	Sub clock input (32kHz)
9	XOUT	O	Sub clock output (32kHz)
10	RESET	I	CPU reset signal input
11	OSCOU	O	Main clock output (6MHz)
12	VSS	—	Ground
13	OSCIN	I	Main clock input (6MHz)
14	VCC1	—	Power supply pin (+5V)
15	NMI	I	Non maskable interrupt signal input
16	NC	O	Not used. (Open)
17	DAVN	I	RDS data acquisition detect signal input
18	BU_IN	I	Back-up power detect signal input
19	NS_MASK	O	RDS NS MASK signal output
20	BEEP	O	Beep signal output
21	FLW_IN	I	OSC frequency shift signal for DC/DC conv.
22	FLW_OUT	O	OSC frequency shift signal for DC/DC conv.
23	SA_CLK	O	Spectrum analyzer clock signal output
24	TELATT	I	telephone mute detect signal input
25	ATT	O	Mute signal output
26	VOLATT	O	Electronic volume mute signal output
27	I2C_CKO	O	Tuner/E-volume BUS clock output
28	I2C_SIO	O	Tuner/E-volume BUS data output
29	UNI_SO	O	BUS CONTROL data output
30	UNI_SI	I	BUS CONTROL data input
31	UNI_CKO	O	BUS CONTROL clock output
32	TUNERATT	O	Tuner mute signal output
33	EESIO	I/O	EEPROM data input/output
34	EECKO	O	EEPROM clock output
35	NC	O	Not used. (Open)
36	NC	O	Not used. (Open)
37	NC	O	Not used. (Open)
38	NC	O	Not used. (Open)
39	HOLD	I	Flash write-in signal input
40	AMP_DIAG	I	Amplifier diagnosis signal input
41	AMP_STB	O	Amplifier strobe signal output
42	AMP_ON	O	Not used. (Open)
43	TUNER_ON	O	Not used. (Open)
44	WRI/WR	I	Connected to VCC (+5V)
45	NC	O	Not used. (Open)
46	NC	O	Not used. (Open)
47	NC	O	Not used. (Open)
48	NC	O	Not used. (Open)
49	NC	I	Not used. (Open)
50	DST_SEL1	I	Destination select signal input
51	DST_SEL2	I	Destination select signal input

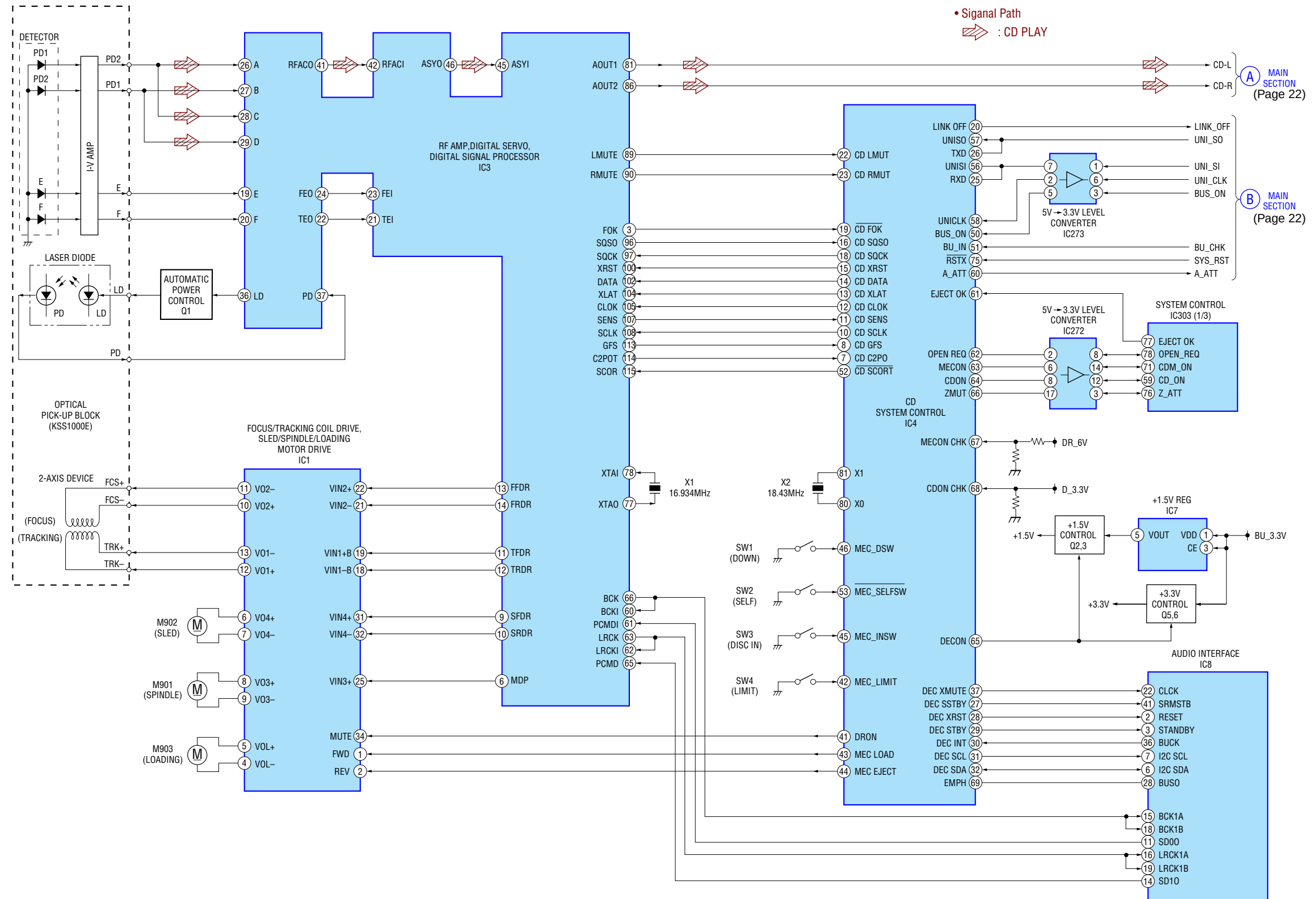
Pin No.	Pin Name	I/O	Pin Description
52	NC	O	Not used. (Open)
53	MOTOR ON	O	Front panel motor drive ON signal output
54	$\overline{\text{CLOSE-SW}}$	I	Front panel close switch signal input
55	$\overline{\text{OPEN-SW}}$	I	Front panel open switch signal input
56	I_DET	I	Motor current detect input
57	MOT-	O	Front panel open/close control signal output
58	MOT+	O	Front panel open/close control signal output
59	CD_ON	I	CD servo ON signal input
60	VCC2	—	Power supply pin (+5V)
61	$\overline{\text{RESET OUT}}$	O	Display CPU reset signal output
62	VSS	—	Ground
63	$\overline{\text{TEST IN}}$	I	Test mode setting detect signal input
64	BUS_ON	O	BUS ON control signal output
65	$\overline{\text{SYSRST}}$	O	System reset signal output
66	BUS/AUX	O	BUS/AUX select control signal output
67	NC	O	Not used. (Open)
68	$\overline{\text{ACC\_IN}}$	I	Accessory key ON detect signal input
69	$\overline{\text{ILL\_IN}}$	I	Illumination line detect signal input
70	RC_IN1	I	Rotary commander signal input 1
71	$\overline{\text{CDM\_ON}}$	I	CD drive power ON signal input
72	NC	O	Not used. (Open)
73	TU ATT-IN	I	Tuner mute condition signal input
74	NC	O	Not used. (Open)
75	NC	O	Not used. (Open)
76	Z_ATT	I	CD Z-MUTE signal input
77	EJECT-OK	O	CD EJECT-OK signal output
78	OPEN_REQ	I	CD OPEN REQ signal input
79	TEMP-TR	I	Temperature detect input
80	QUALITY	I	Tuner noise detect signal input
81	FP-I_DET	I	Front panel motor current detect signal input
82	VSM	I	S-meter signal input
83	SA_IN	I	Spectrum analyzer data input
84	KEYIN1	I	Key signal input 1
85	KEYIN0	I	Key signal input 0
86	RCIN0	I	Rotary commander signal input 0
87	KEY_ACK2	I	Key acknowledge detect signal input 2
88	KEY_ACK0	I	Key acknowledge detect signal input 0
89	KEY_ACK1	I	Key acknowledge detect signal input 1
90	OPEN_KEY	I	Open key detect signal input
91	RAM_BU	I	RAM back up signal input
92	FLD_ON	O	FL driver power supply ON/OFF signal output
93	FL_ON	O	FL power supply ON/OFF signal
94	AVSS	—	Ground
95	DISP_CE	O	Display CPU chip enable output
96	VREF	—	A/D converter reference voltage (+5V)
97	AVCC	—	Power supply pin (+5V)
98	DISP SI/RX	I	Display CPU BUS data input
99	DISP SO/TX	O	Display CPU BUS data output
100	DISP CKO	O	Display CPU BUS clock output

• IC2 M30823MH-081GP (DISPLAY SYSTEM CONTROL) (DISPLAY Board)

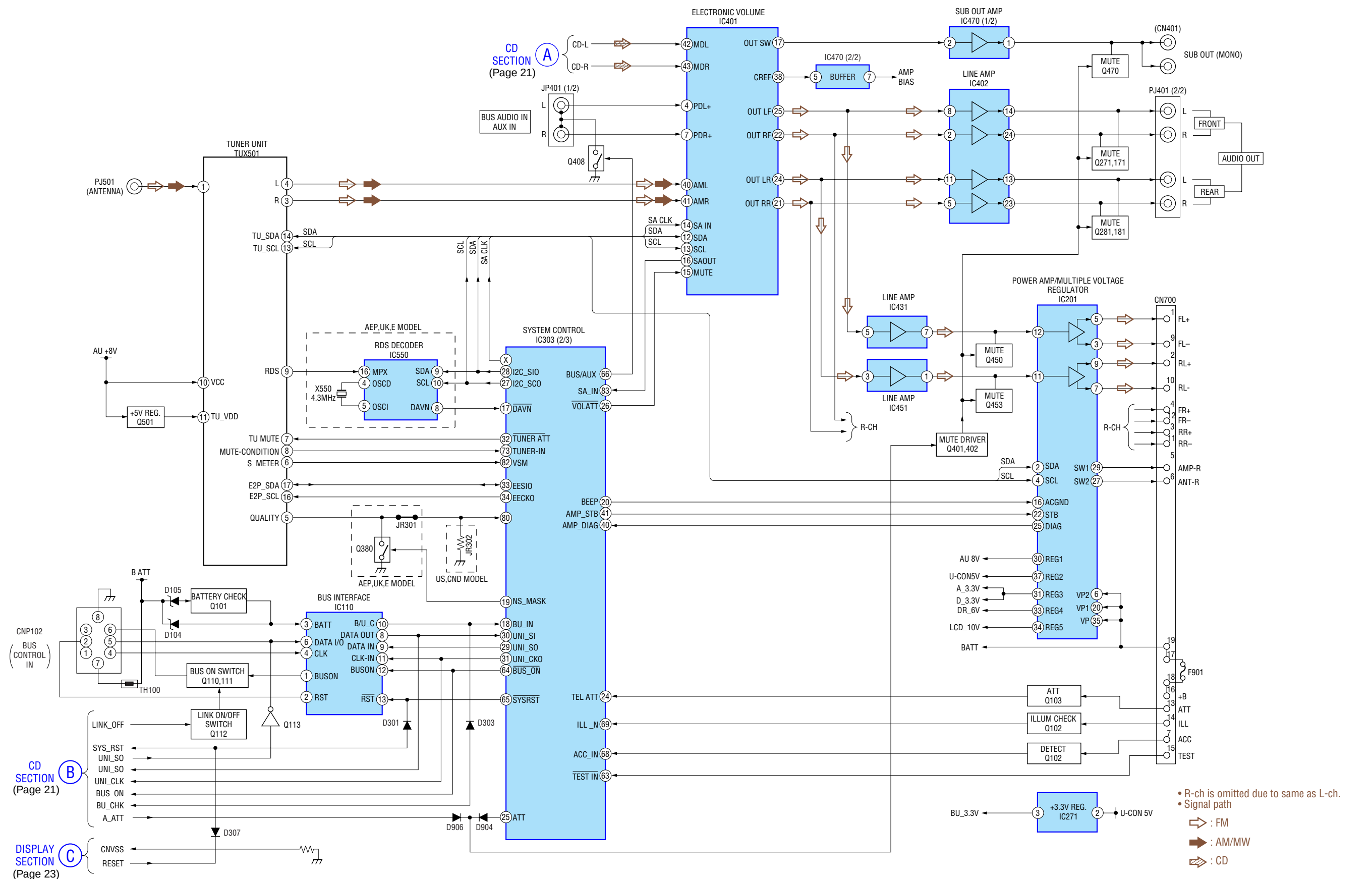
Pin No.	Pin Name	I/O	Pin Description
1	SYS_CE	I	Main chip enable signal input
2	NC	O	Not used. (Open)
3	FL_DAT3	O	FL serial data output
4	NC	O	Not used. (Open)
5	FL_CLK_IN	I	FL serial clock input
6	BYTE	I	L fixed terminal
7	CNVSS	I	Flash write signal input
8	PLL_LPF	O	Not used. (Open)
9	PLL_GND	I	Ground
10	RESET	I	CPU reset signal input
11	XOUT	O	Main clock output (8MHz)
12	VSS	—	Ground
13	XIN	I	Main clock input (8MHz)
14	VCC	—	Power supply pin (+5V)
15	NMI	I	Non maskable interrupt signal input
16	NC	O	Not used. (Open)
17	NC	I	GCP interrupt signal input (Connecting to pin 20)
18	NC	O	Not used. (Open)
19	NC	O	Not used. (Open)
20	NC	O	GCP interrupt signal output (Connecting to pin 17)
21	LAT	O	FL data latch signal output
22	BK	O	FL BK signal output
23	GCP2	O	FL GCP2 output
24	NC	O	Not used. (Open)
25	GCP1	O	FL GCP1 output
26	NC	O	Not used. (Open)
27	GCP4	O	FL GCP4 output
28	GCP3	O	FL GCP3 output
29	SYS_SO	O	System serial data output
30	SYS_SI	I	System serial data input
31	SYS_CLK	O	System serial clock input
32	NC	O	Not used. (Open)
33	FL_DAT1	O	FL serial data output
34	NC	O	Not used. (Open)
35	FL_CLK	O	FL serial clock output
36	LCD_CE	O	LCD driver chip enable signal output
37	LCD_INH	O	LCD driver inhibit signal output
38	NC	O	Not used. (Open)
39	HOLD	I	L fixed terminal
40 – 43	NC	O	Not used. (Open)
44	WRI/WR	I	H fixed terminal
45 – 59	NC	O	Not used. (Open)
60	VCC	—	Power supply pin (+5V)
61	NC	O	Not used. (Open)
62	VSS	—	Ground
63 – 67	NC	O	Not used. (Open)
68	LED_SW10	O	LED driver signal output
69	LED_SW9	O	LED driver signal output
70	LED_SW8	O	LED driver signal output
71	LED_SW7	O	LED driver signal output
72	LED_SW6	O	LED driver signal output
73	LED_SW5	O	LED driver signal output

Pin No.	Pin Name	I/O	Pin Description
74	LED_SW4	O	LED driver signal output
75	LED_SW3	O	LED driver signal output
76 – 93	NC	O	Not used. (Open)
94	AVSS	—	Ground
95	NC	O	Not used. (Open)
96	VREF	—	Power supply pin (+5V)
97	AVCC	—	Power supply pin (+5V)
98	RXD1	—	Not used. (Open)
99	FL_DATA2	O	FL serial data output
100	FL_CLK_IN	I	FL serial clock input

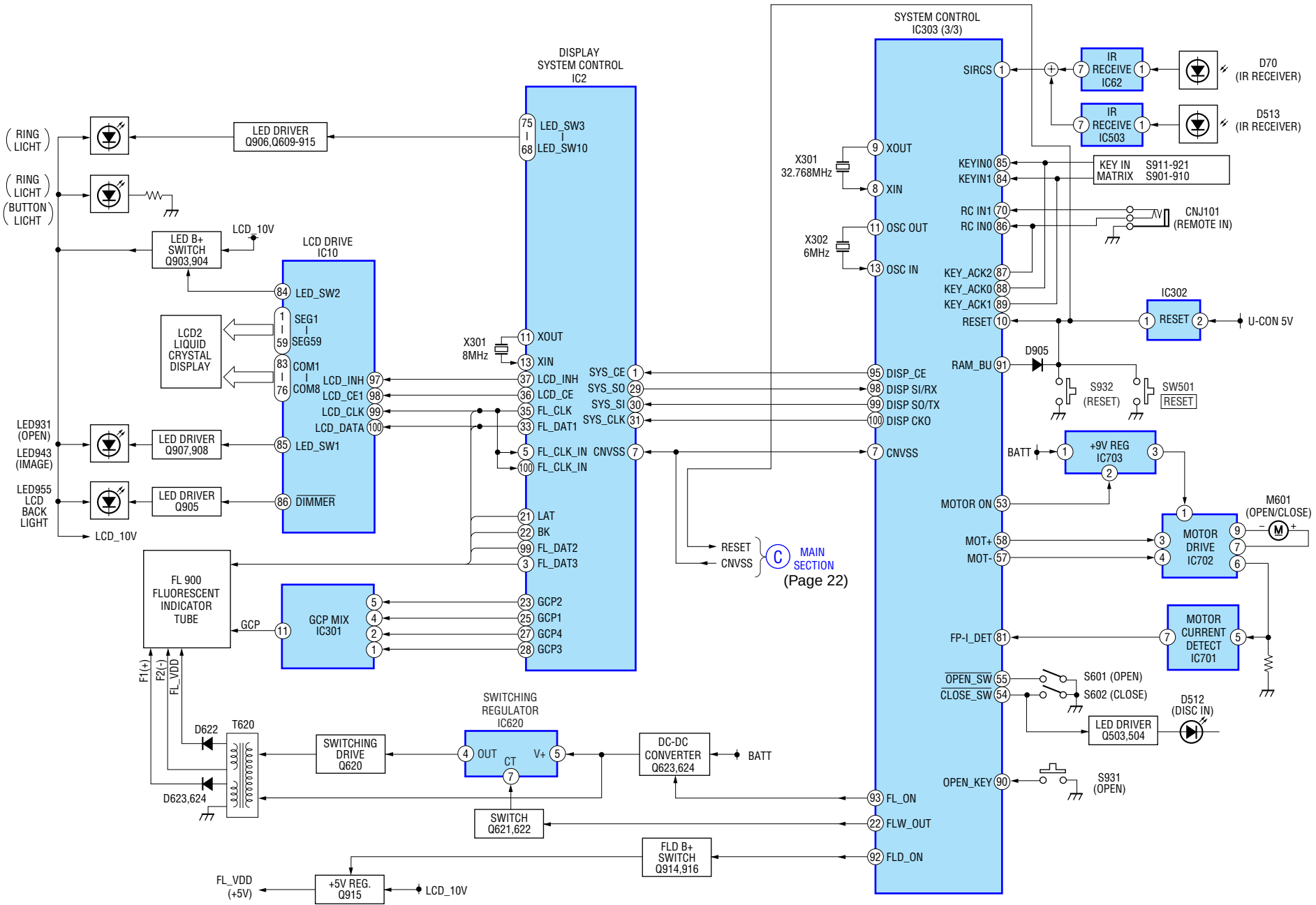
3-2. BLOCK DIAGRAM — CD SECTION —



3-3. BLOCK DIAGRAM — MAIN SECTION —



3-4. BLOCK DIAGRAM — DISPLAY SECTION —



3-5. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.
Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4} \text{ W}$ or less unless otherwise specified.
- $\triangle$: internal component.
- $\square$: panel designation.

Note:
The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

For printed wiring boards.
Note:

- $\circ$: parts extracted from the component side.
- --- : parts extracted from the conductor side.
- $\circ$: Through hole.
- $\blacksquare$: Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

Caution:
Pattern face side: Parts on the pattern face side seen from the (Side B) pattern face are indicated.
Parts face side: Parts on the parts face side seen from the (Side A) parts face are indicated.

Legend:

- --- : B+ Line.
- --- : B- Line.
- $\square$: adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- CD mechanism section
no mark : CD PLAY
- Main (1/4), (2/4), (3/4), (4/4) and Key sections
no mark : FM
() : AM/MW/LW
< > : CD PLAY
* : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 $\Rightarrow$: CD PLAY
 $\Rightarrow$: FM
 $\Rightarrow$: AM/MW/LW
- Abbreviation
CND : Canadian model.

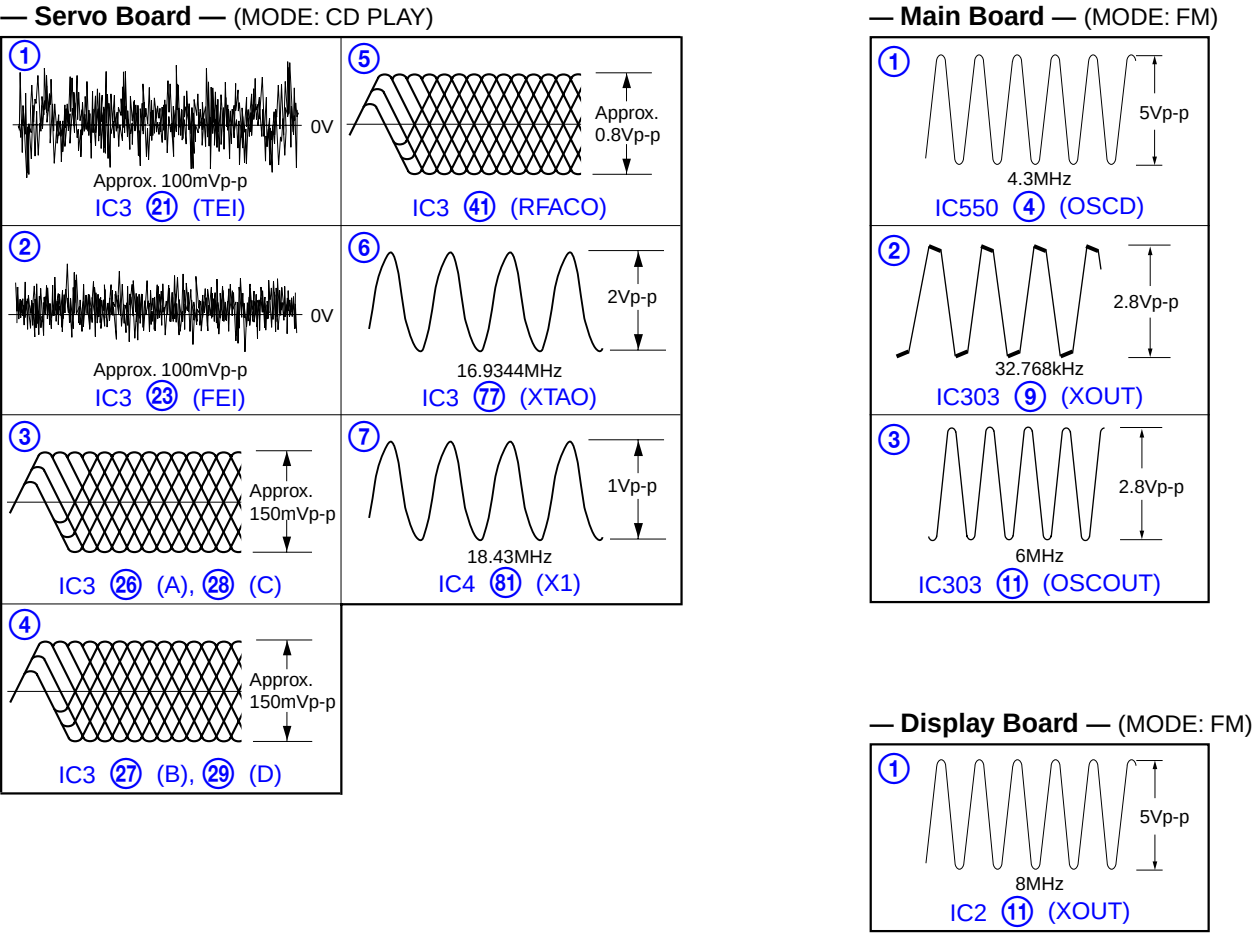
Diagram Examples:

These are omitted

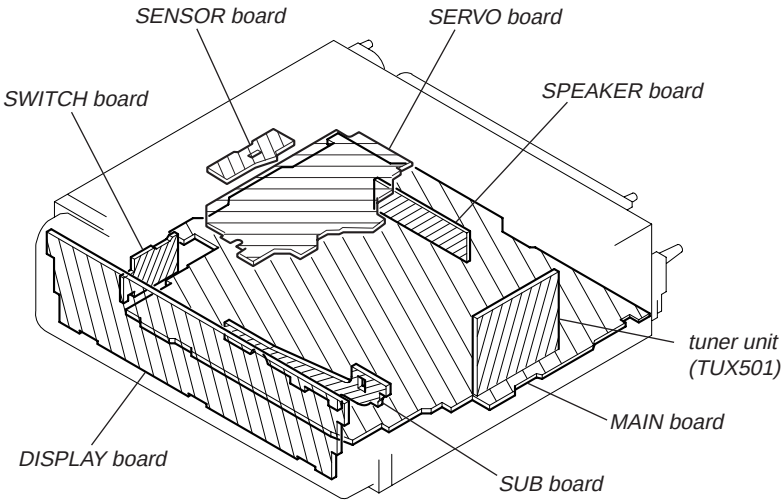
These are omitted

These are omitted

3-6. WAVEFORMS

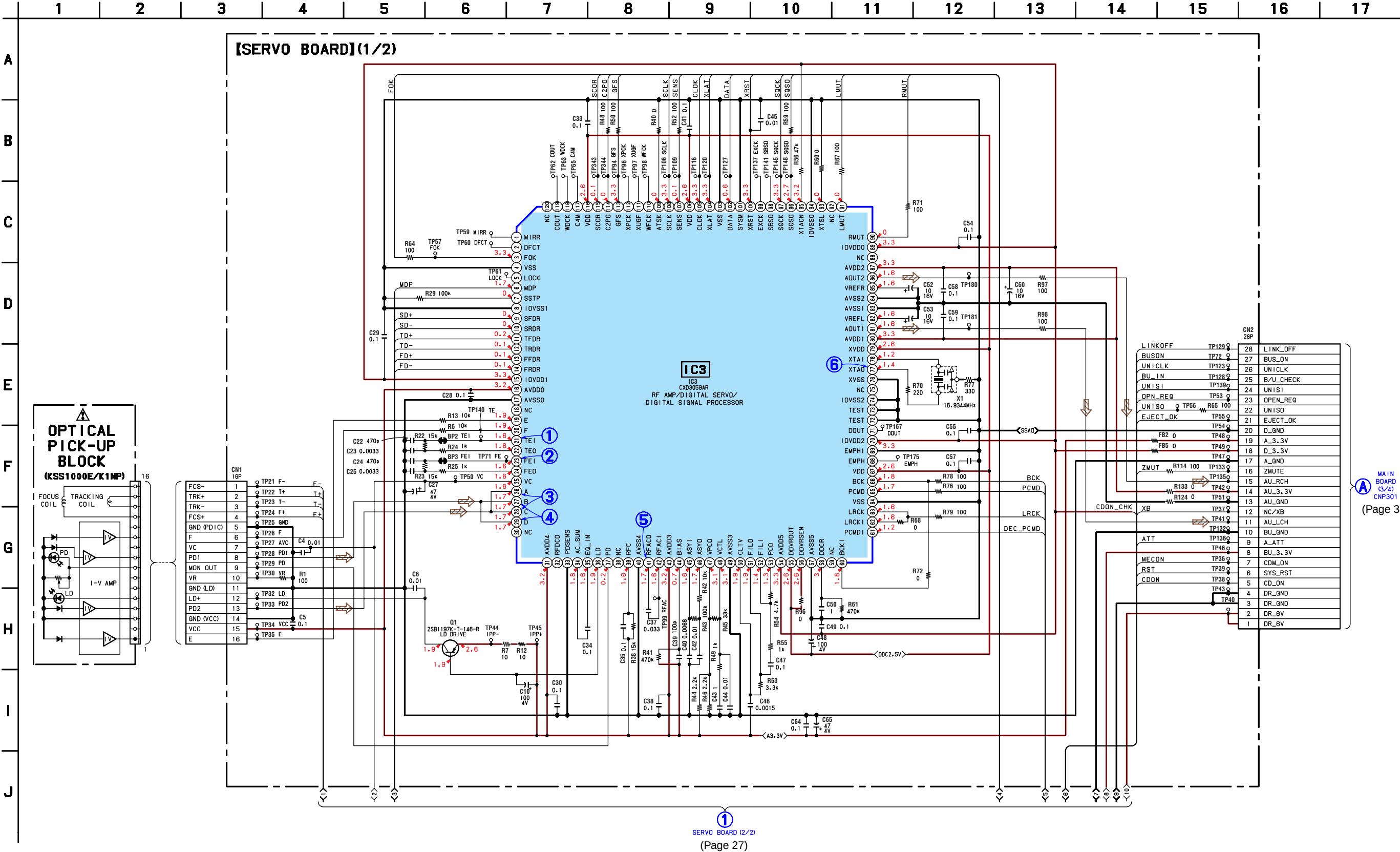


3-7. CIRCUIT BOARDS LOCATION



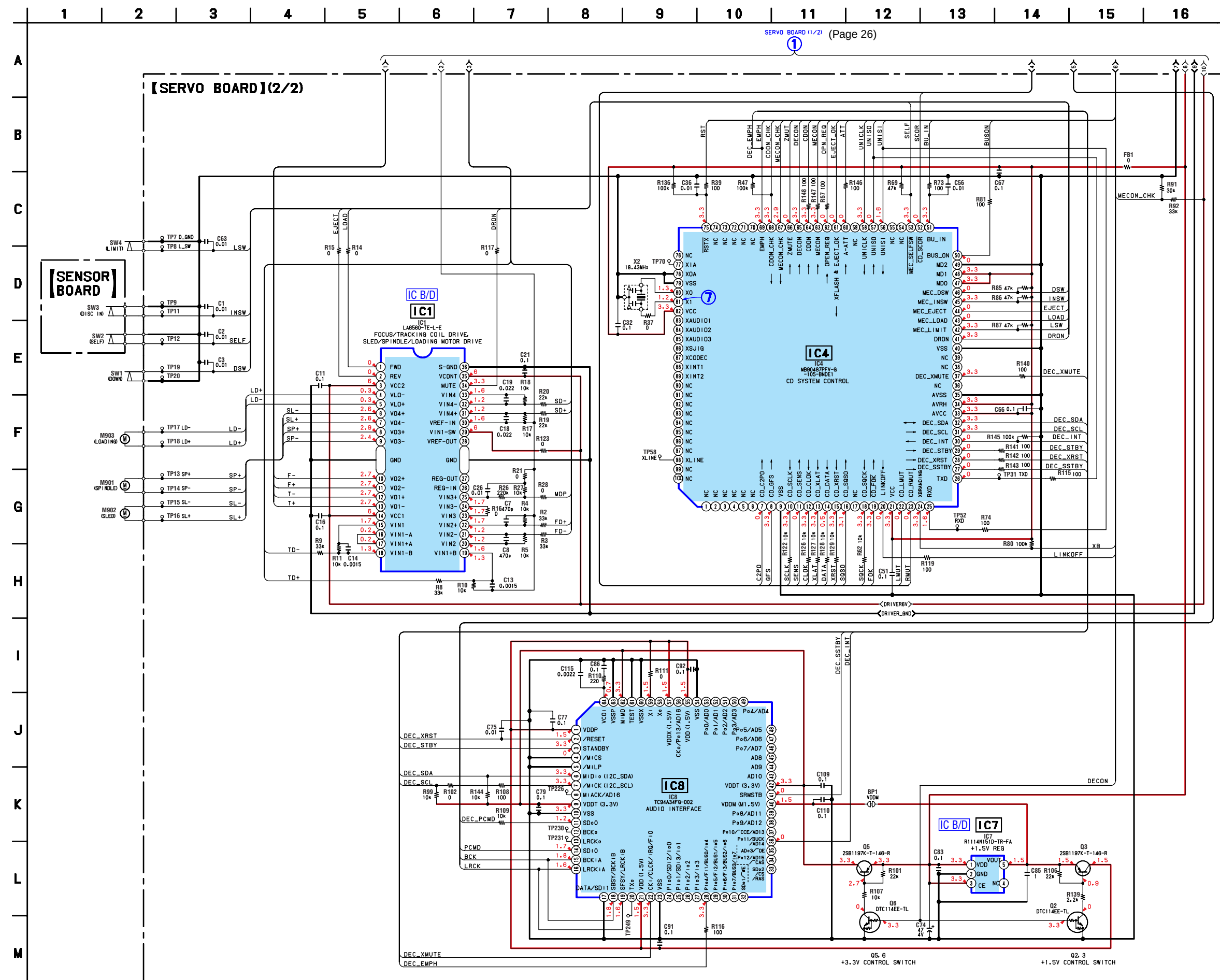


3-9. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (1/2) — • Refer to page 24 for Waveforms.



- Refer to page 24 for Waveforms.

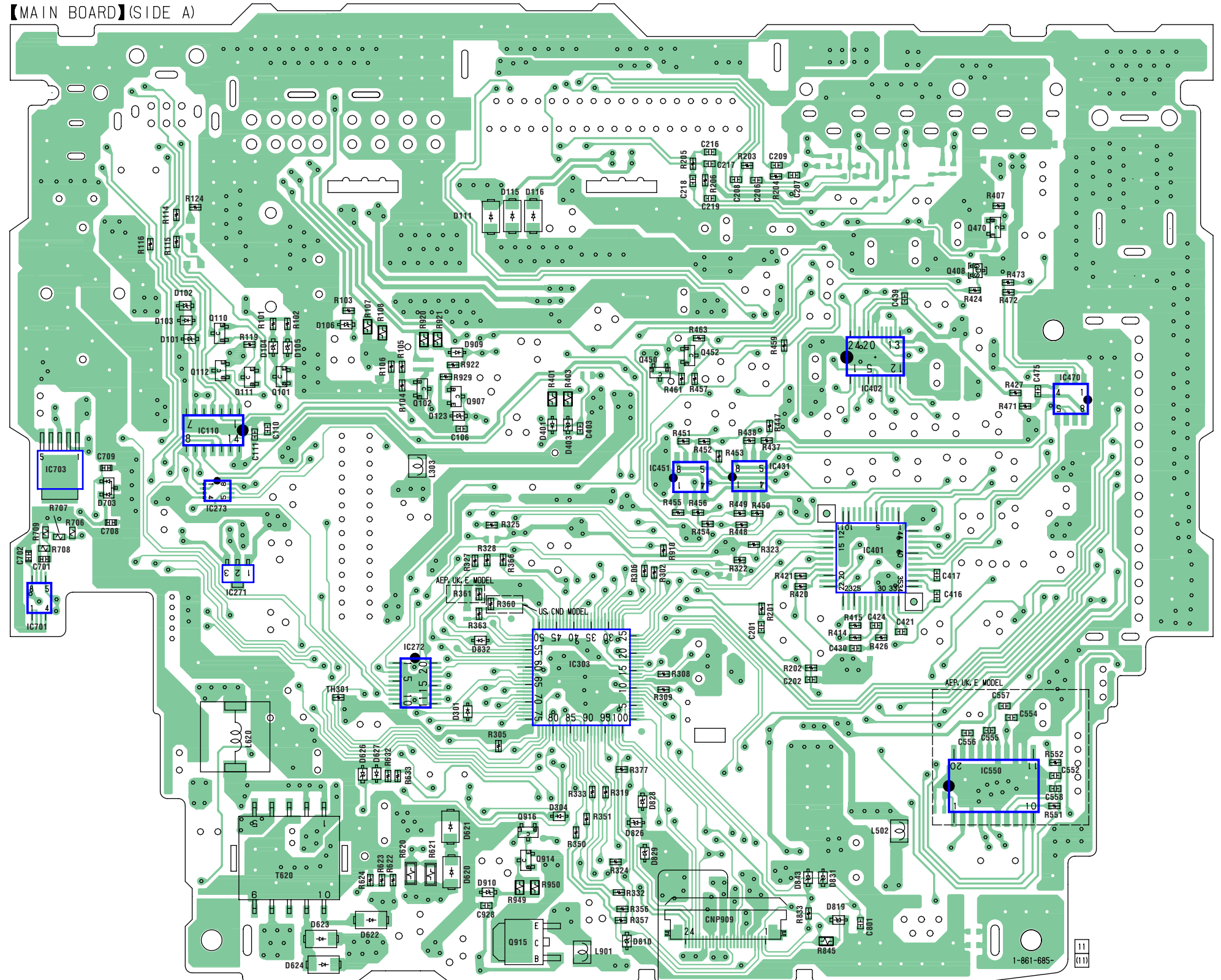
3-10. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (2/2) — • Refer to page 38 for IC Block Diagrams.



14	13	12	11	10	9	8	7	6	5	4	3	2	1
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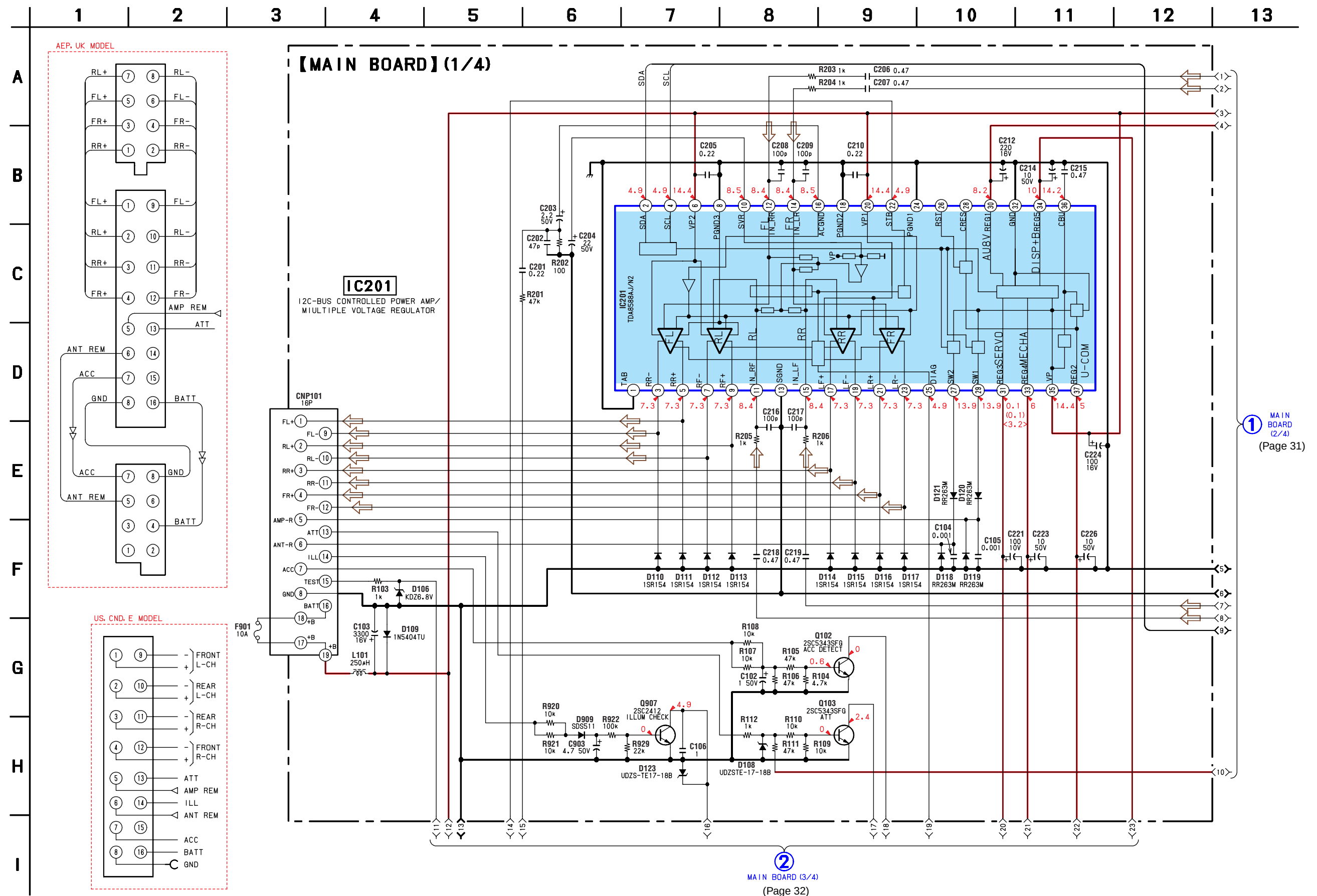
Semiconductor Location			
Ref. No.	Location	Ref. No.	Location
D101	D-10	(D907)	I-7
D102	D-10	D909	D-7
D103	D-10	D910	I-7
D104	D-9		
D105	D-9	IC110	E-9
D106	D-8	(IC201)	B-6
(D108)	E-8	IC271	F-9
(D109)	D-9	IC272	G-8
(D110)	B-8	IC273	F-9
D111	C-7	(IC302)	H-7
(D112)	B-8	IC303	G-6
(D113)	C-7	IC401	F-4
(D114)	C-6	IC402	E-4
D115	C-7	IC431	E-5
D116	C-7	IC451	E-5
(D117)	C-6	IC470	E-2
(D118)	C-8	IC550	H-3
(D119)	D-8	(IC620)	H-9
(D120)	C-5	IC701	G-11
(D121)	C-5	(IC702)	E-11
(D122)	C-3	IC703	E-11
D123	E-7		
D301	G-7	Q101	E-9
(D302)	H-8	Q102	E-8
(D303)	E-8	(Q103)	D-8
D304	H-6	Q110	D-9
(D305)	H-7	Q111	E-9
D401	E-7	Q112	E-9
D403	E-6	(Q113)	E-9
(D501)	G-2	(Q171)	C-4
D620	I-7	(Q181)	C-3
D621	H-7	(Q271)	C-4
D622	I-8	(Q281)	C-4
D623	I-9	(Q380)	F-7
D624	J-9	(Q401)	E-6
(D625)	H-9	(Q402)	E-6
D626	H-8	Q408	D-3
D627	H-8	Q450	D-6
D703	F-10	(Q451)	D-5
(D808)	I-6	Q452	D-5
D810	I-6	(Q453)	E-6
D819	I-4	Q470	C-3
(D822)	I-6	(Q501)	G-3
(D825)	I-6	(Q620)	I-9
D826	H-6	(Q621)	G-9
(D827)	I-5	(Q622)	G-9
D828	H-6	(Q623)	G-9
D829	I-6	(Q624)	G-10
D831	I-4	Q907	E-7
D832	G-7	Q914	I-7
D843	I-4	Q915	I-7
(D904)	F-7	Q916	H-7
(D906)	F-7		

【MAIN BOARD】(SIDE A)




 DISPLAY BOARD
 CNP908
 (Page 36)

3-12. SCHEMATIC DIAGRAM — MAIN SECTION (1/4) —

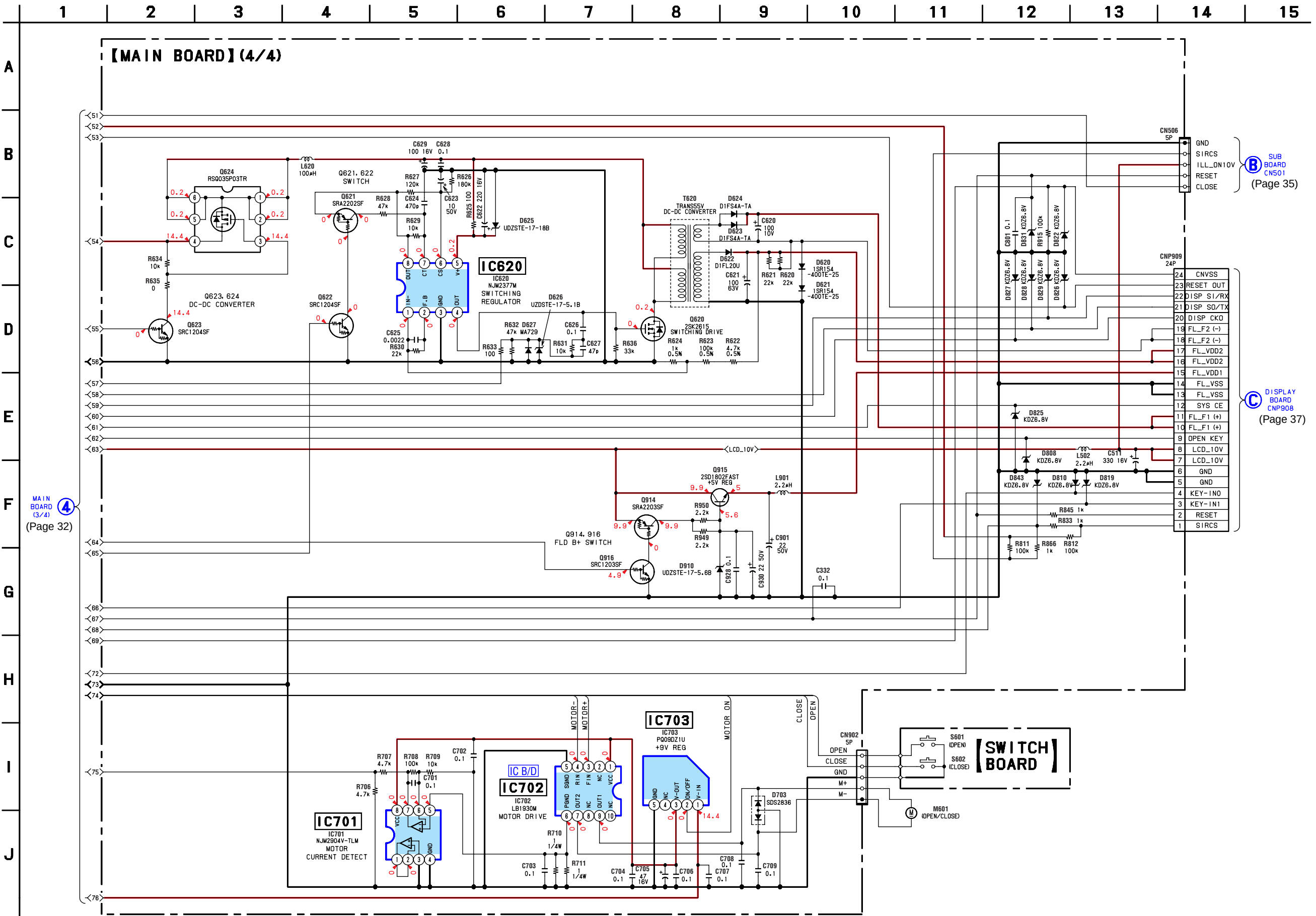




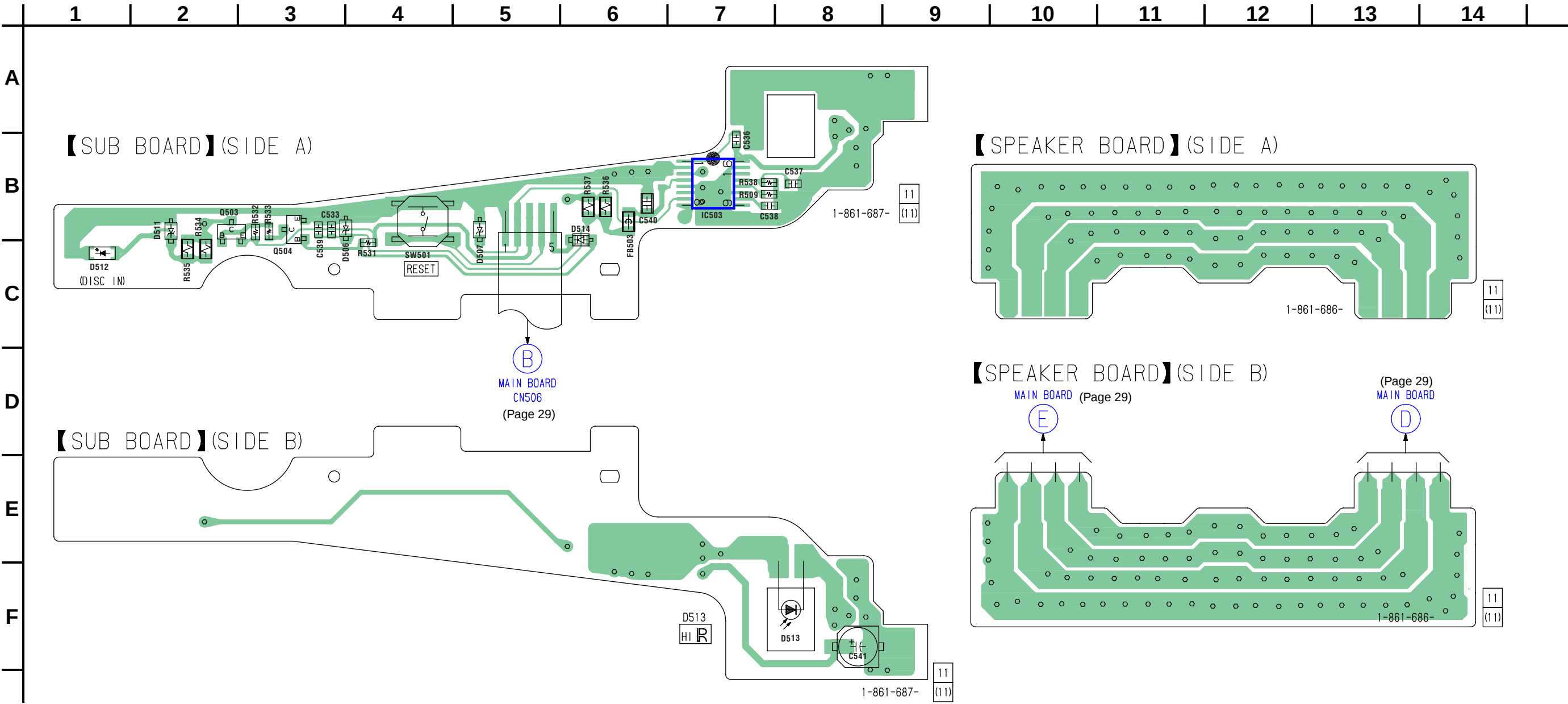
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
--	----------	----------	----------	----------	----------	----------	----------	----------	----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------



3-15. SCHEMATIC DIAGRAM — MAIN SECTION (4/4) — • Refer to page 39 for IC Block Diagram.



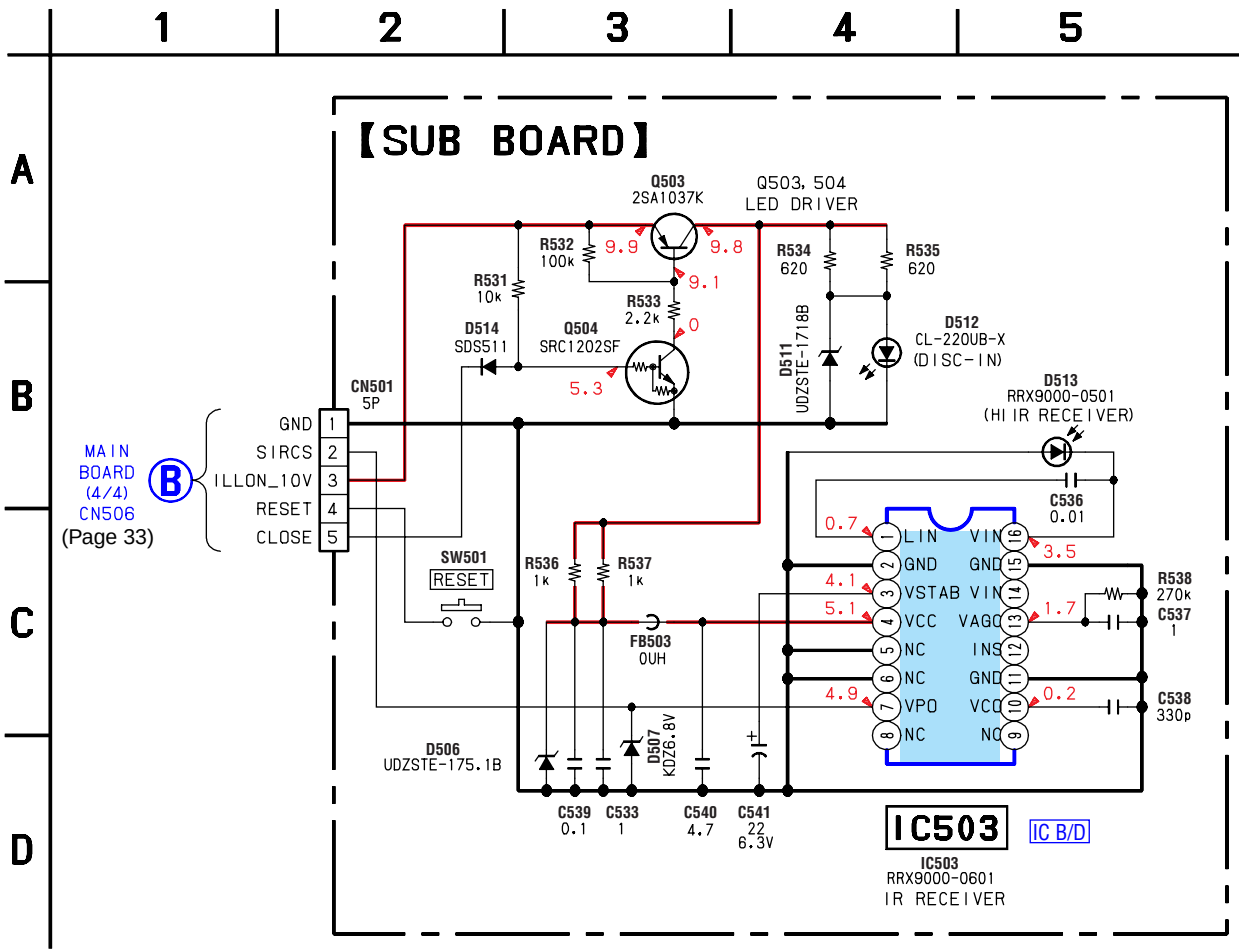
3-16. PRINTED WIRING BOARD — SUB SECTION — • Refer to page 24 for Circuit Boards Location. : Uses unleaded solder.



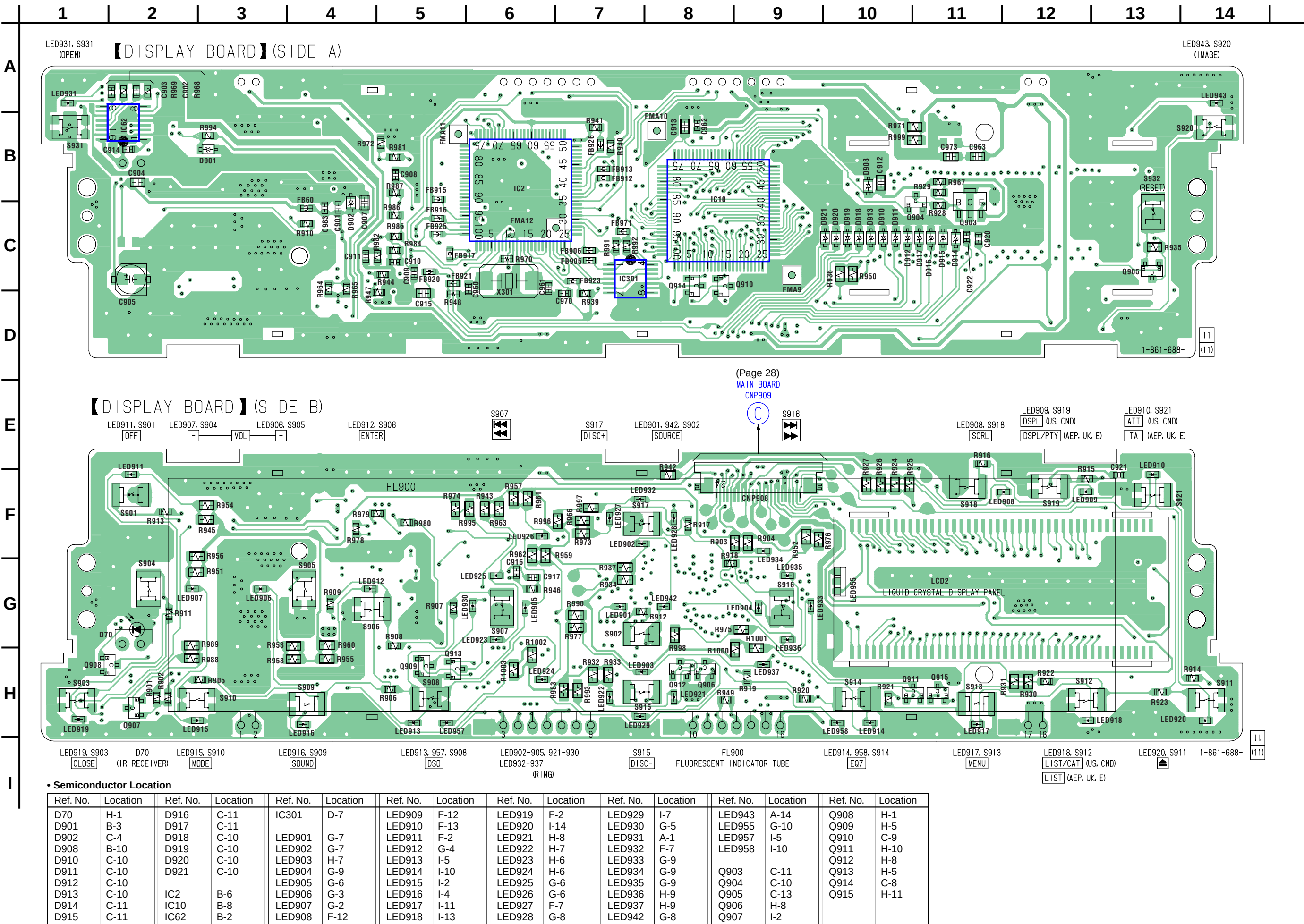
• Semiconductor Location

Ref. No.	Location
D506	C-3
D507	B-5
D511	B-2
D512	C-1
D513	F-8
D514	B-6
IC503	B-7
Q503	B-2
Q504	B-3

3-17. SCHEMATIC DIAGRAM — SUB SECTION — • Refer to page 40 for IC Block Diagram.



3-18. PRINTED WIRING BOARD — DISPLAY SECTION — • Refer to page 24 for Circuit Boards Location. : Uses unleaded solder.

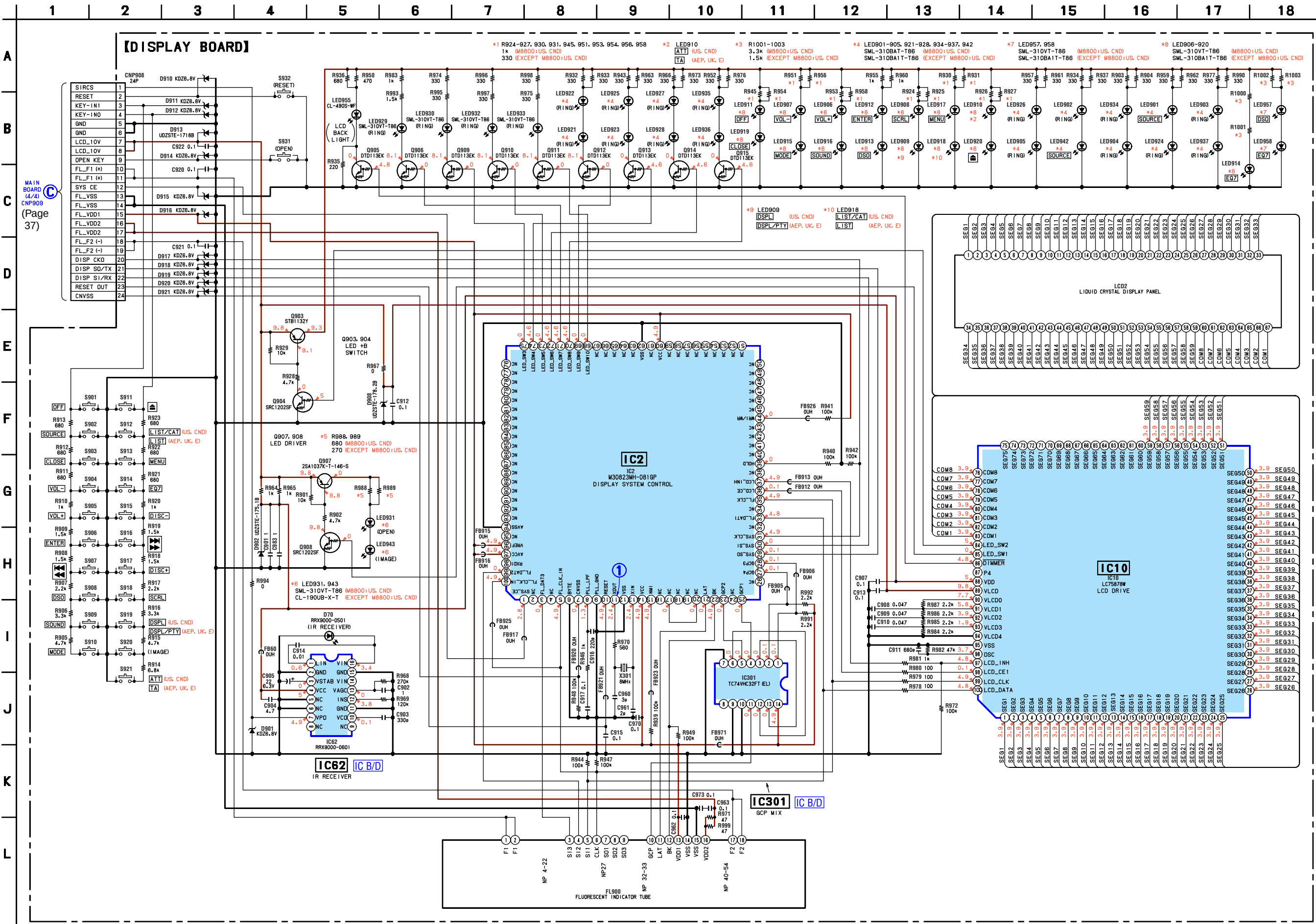


36

36

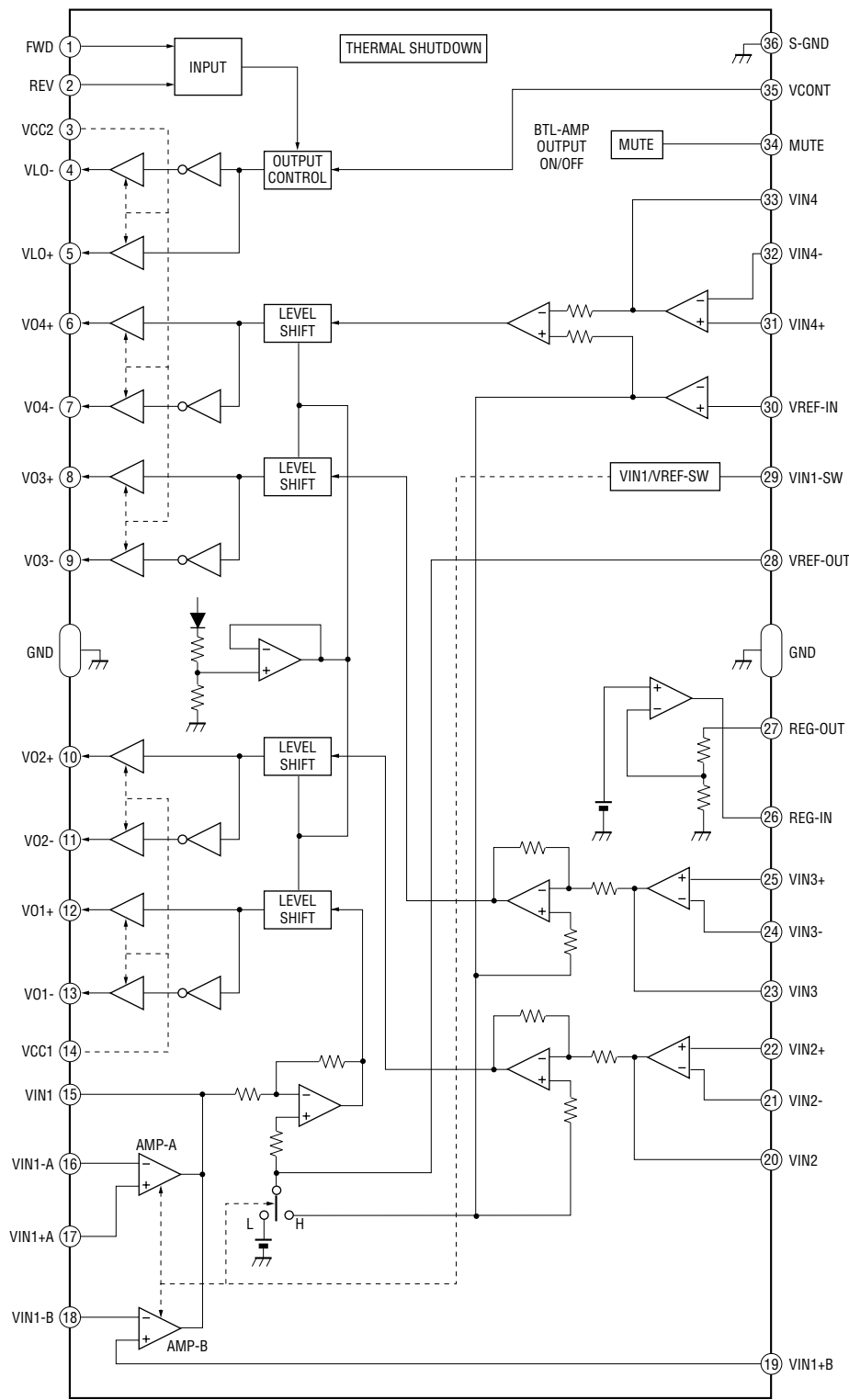
• Refer to page 24 for Waveform.
• Refer to page 40 for IC Block Diagrams.

3-19. SCHEMATIC DIAGRAM — DISPLAY SECTION —

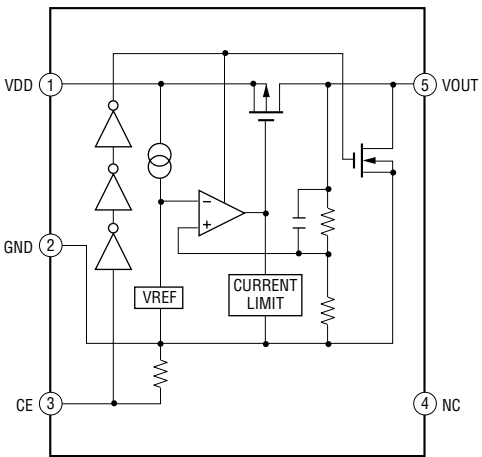


3-20. IC BLOCK DIAGRAMS

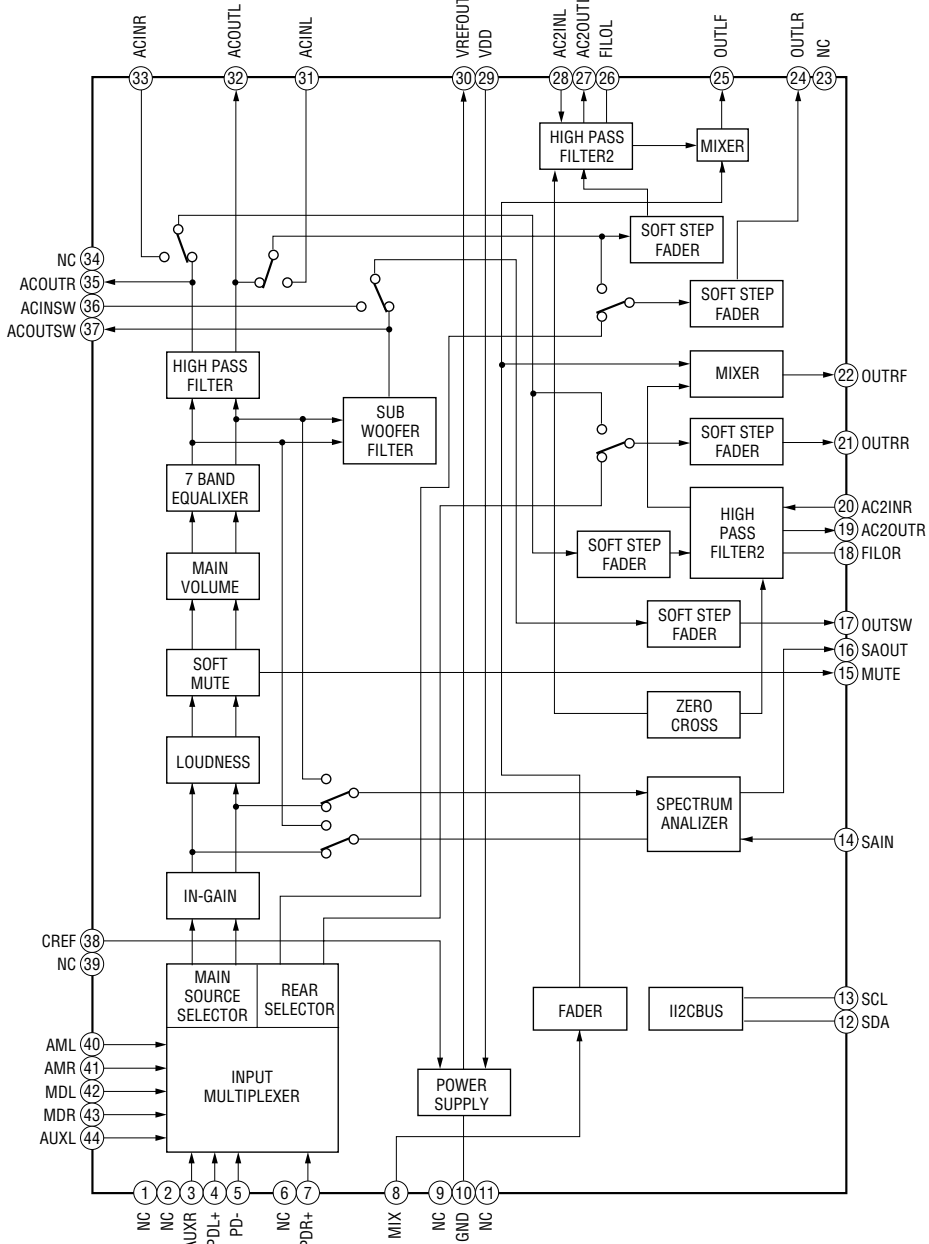
IC1 LA6560-TE-L-E (SERVO Board (2/2))



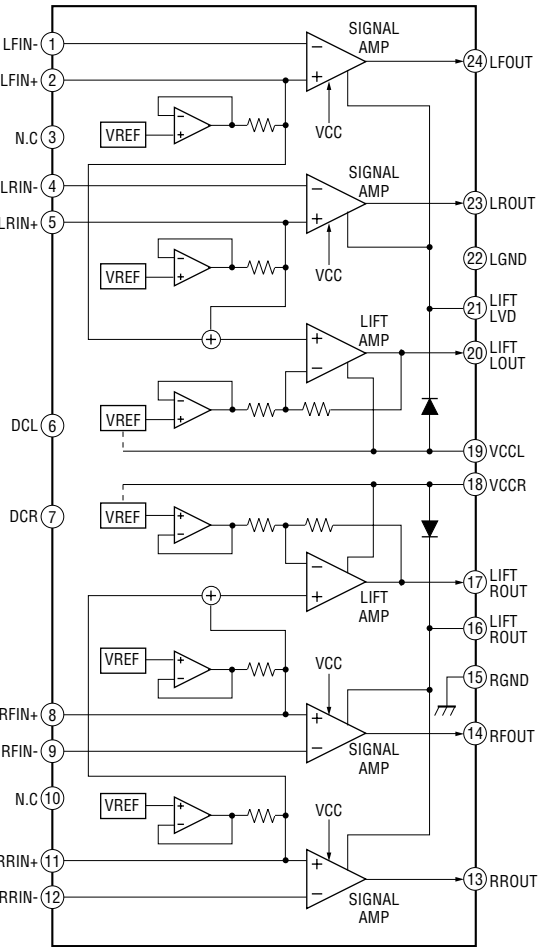
IC7 R1114N151D-TR-FA (SERVO Board (2/2))



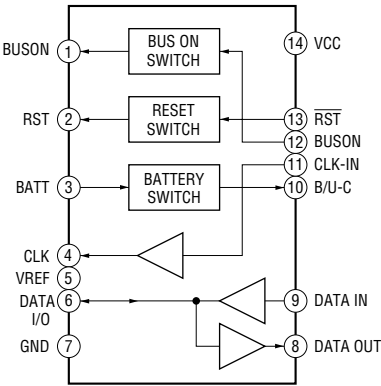
IC401 TDA7416 (MAIN Board (2/4))



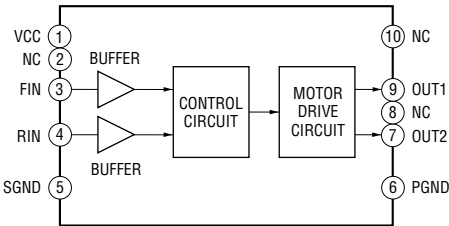
IC402 LA2901V-TLM (MAIN Board (2/4))



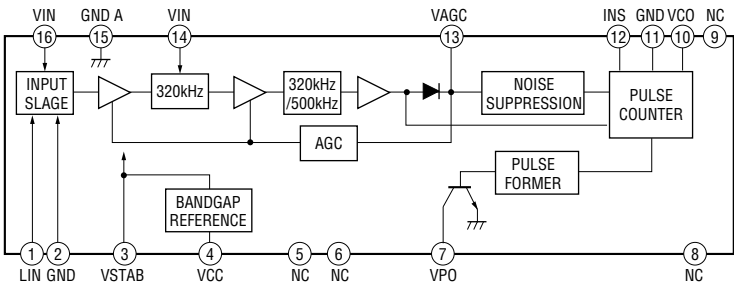
IC110 BA8270F (MAIN Board (3/4))



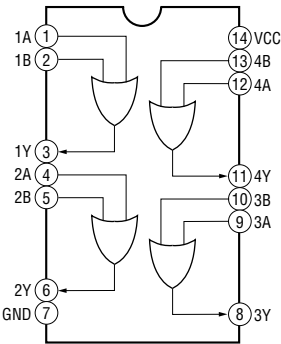
IC702 LB1930M (MAIN Board (4/4))



IC503 RRX9000-0601 (SUB Board)
IC62 RRX9000-0601 (DISPLAY Board)



IC301 TC74VHC32FT(EL) (DISPLAY Board)



SECTION 4
EXPLODED VIEWS

NOTE:

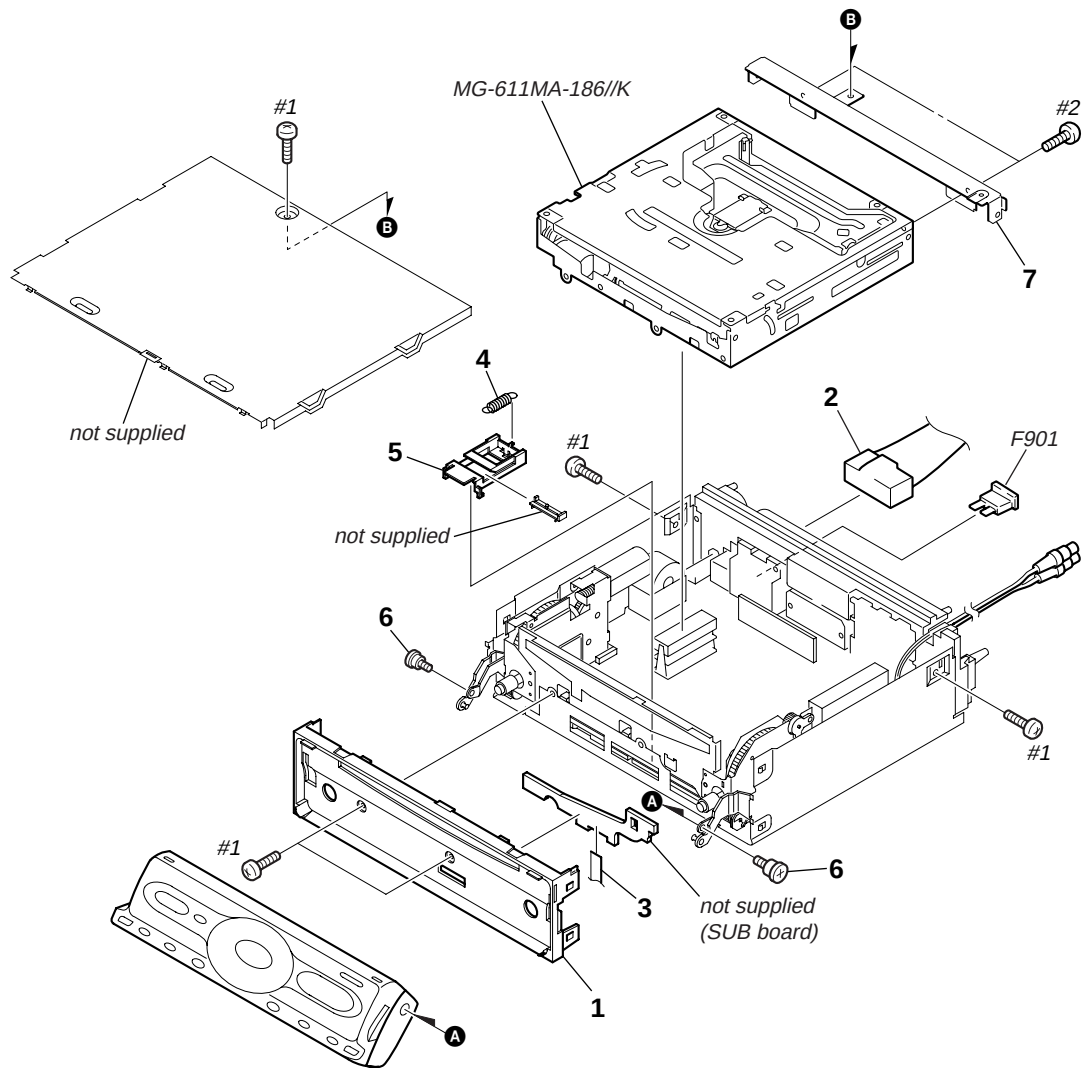
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts
Example :
 ↑ ↑
 Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.
- Abbreviation
CND: Canadian model

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

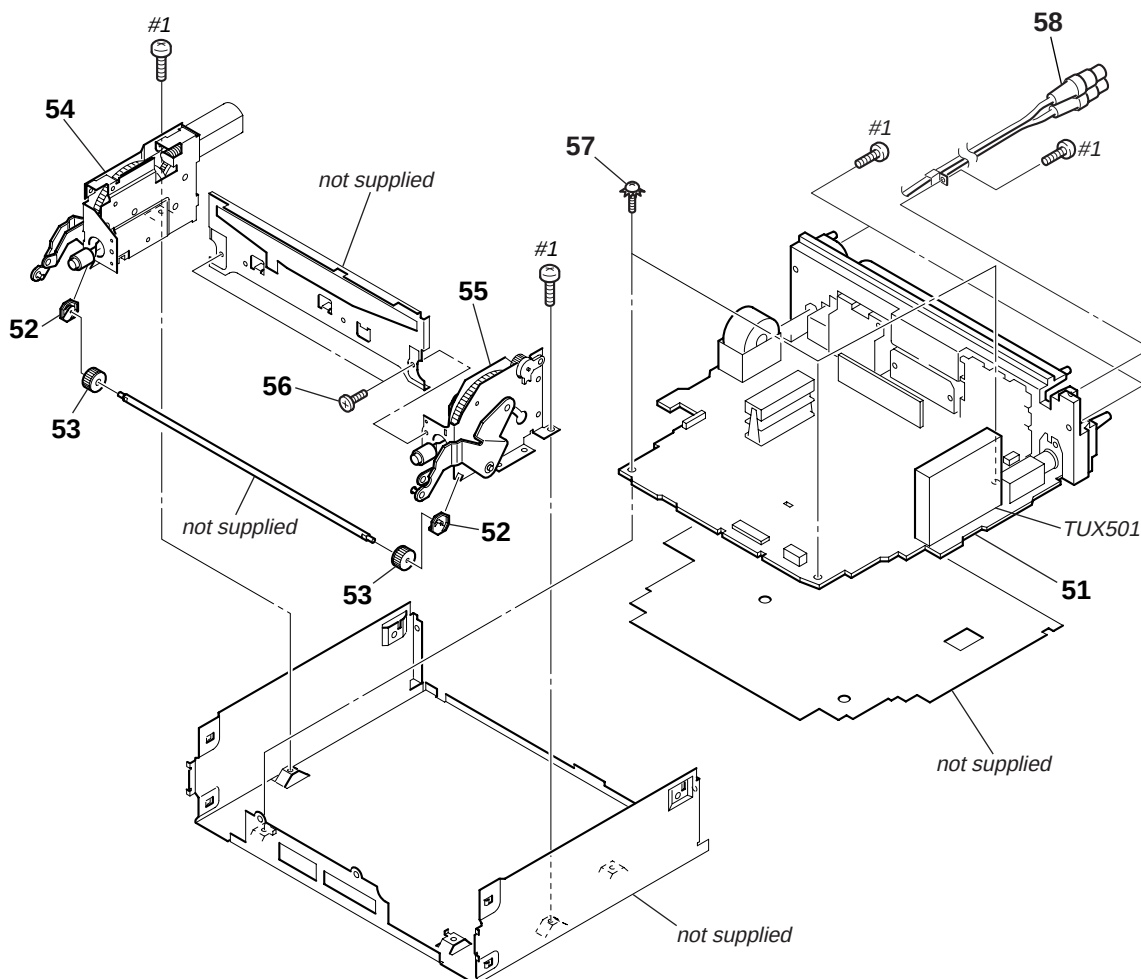
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-1. CHASSIS SECTION



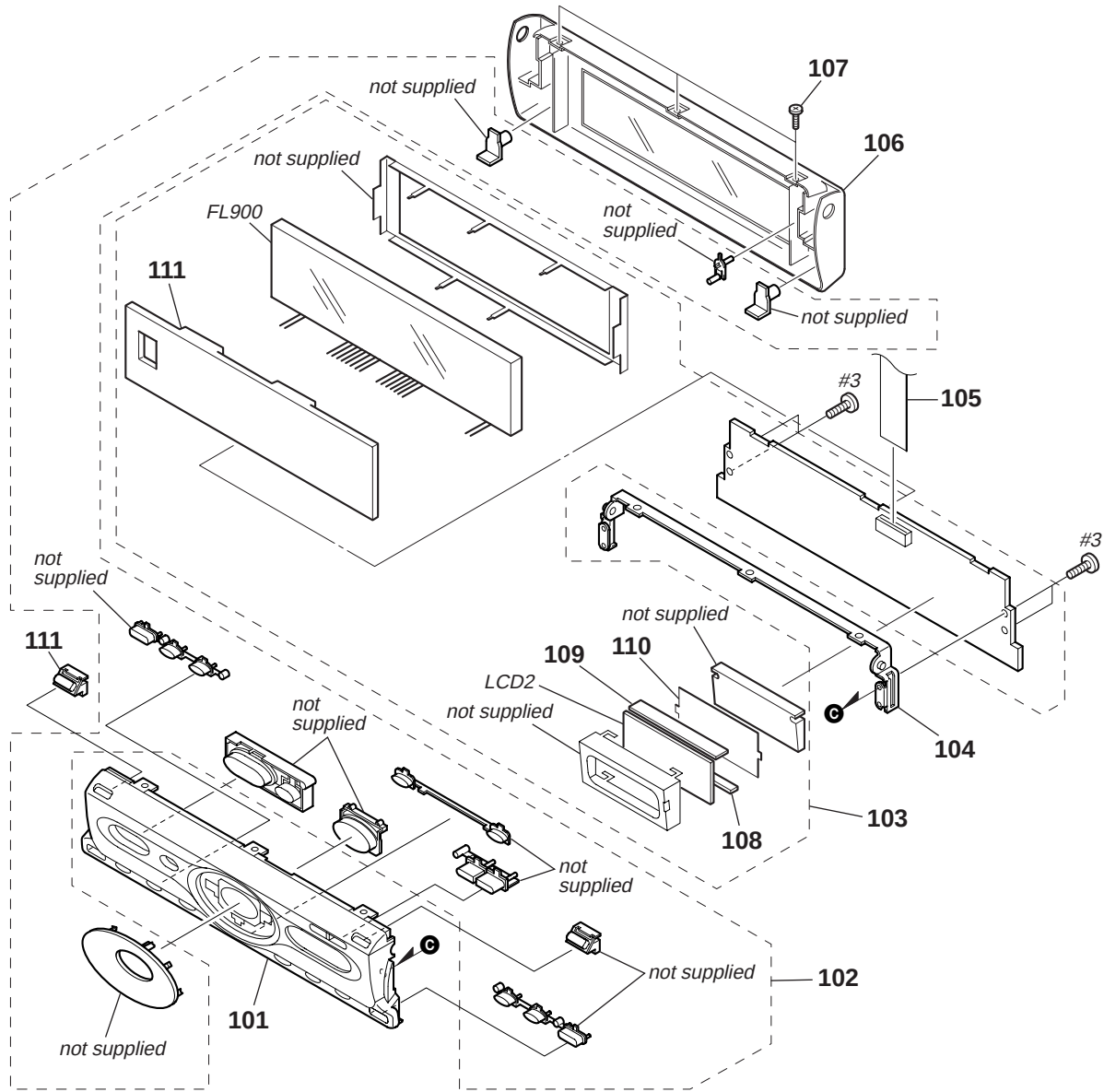
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-3384-498-1	PANEL (CD) ASSY, SUB (M8800:US,CND)		4	3-264-985-01	SPRING (FPC), TENSION	
1	X-3384-499-1	PANEL (CD) ASSY, SUB (AEP,UK,E)		5	3-264-984-01	COVER (FPC)	
1	X-3384-786-1	PANEL (CD) ASSY, SUB (M8805X)		6	3-045-756-02	SCREW (PANEL)	
2	1-776-207-72	CORD (WITH CONNECTOR) (POWER)	(US,CND,E)	7	3-248-858-01	BRACKET (CD) (AEP,UK,E)	
2	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER)	(AEP,UK)	F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
3	1-829-084-11	CABLE, FLAT (FFC) 5P		#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
				#2	7-685-790-09	SCREW +PTT 2.6X4 (S)	

4-2. MAIN BOARD SECTION



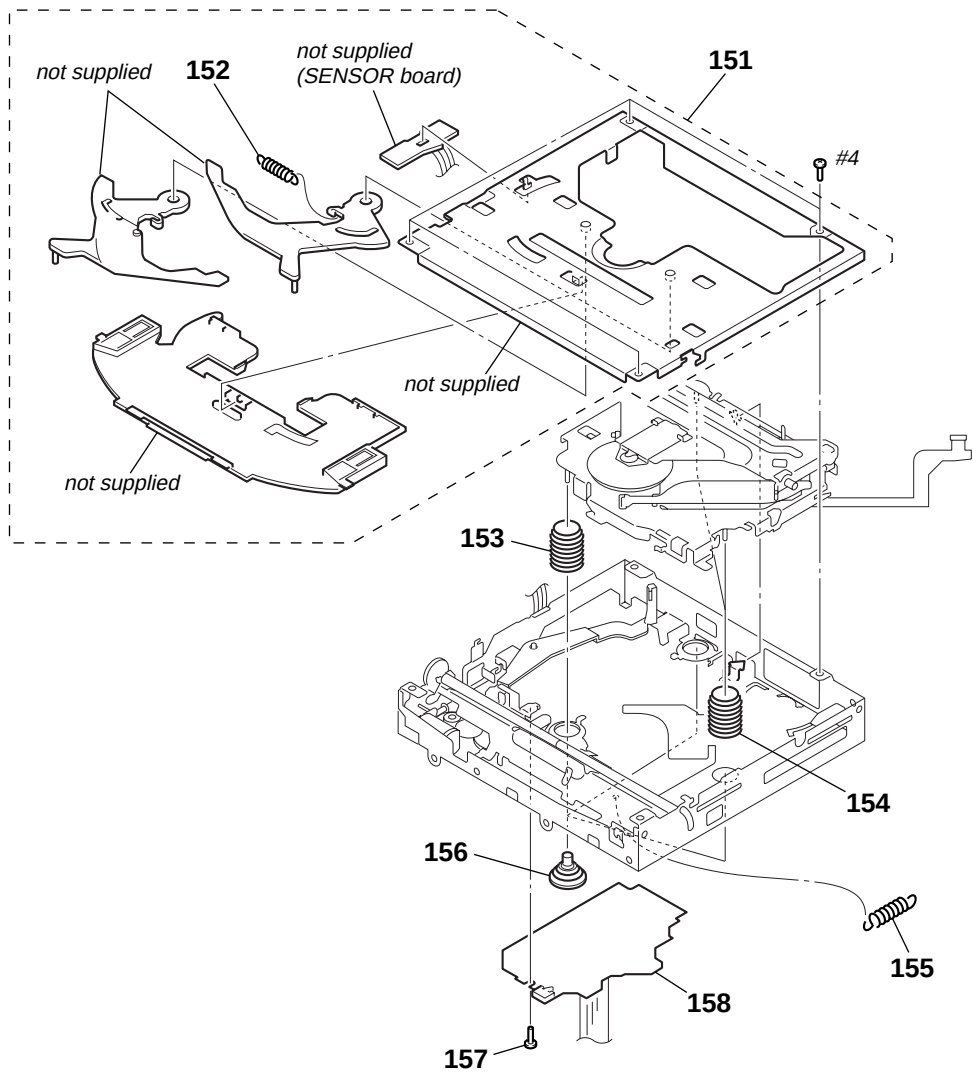
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	A-3283-596-A	MAIN BOARD, COMPLETE (US,CND)		56	2-641-447-11	SCREW (2.6X6), +STP	
51	A-3283-622-A	MAIN BOARD, COMPLETE (AEP,UK,E)		57	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
52	3-262-629-01	GUIDE (DRIVE SHAFT)		58	1-790-375-22	CORD (WITH CONNECTOR) (SUB OUT (MONO))	
53	3-262-621-01	GEAR (DRIVE SHAFT)		TUX501	A-3220-959-A	TUNER UNIT (TUX-032)	
54	X-3384-804-1	SERVICE ASSY, DRIVING (A)		#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
55	X-3384-805-1	SERVICE ASSY, FOLLOW MOVE (A)					

4-3. FRONT PANEL SECTION



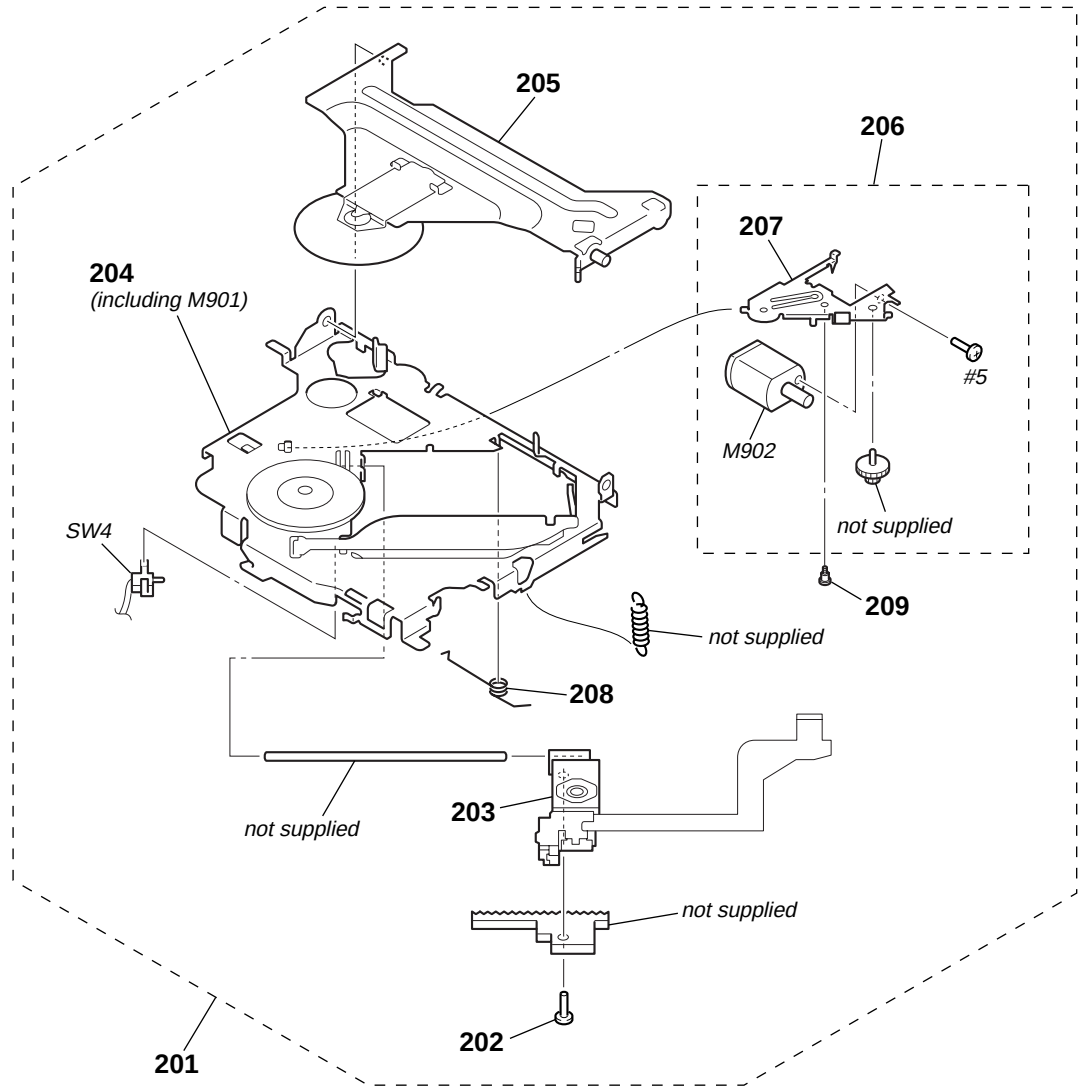
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-3384-477-1	PANEL (KEY) ASSY, FRONT (US,CND)		108	1-780-137-11	CONDUCTIVE BOARD, CONNECTION	
101	X-3384-480-1	PANEL (KEY) ASSY, FRONT (AEP,UK,E)		109	1-780-138-11	CONDUCTIVE BOARD, CONNECTION	
102	X-3384-912-1	BUTTON ASSY (S)		110	3-260-053-01	SHEET (LCD KEY), DIFFUSION	
103	A-3283-600-A	DISPLAY BOARD, COMPLETE (M8800:US,CND)		111	3-260-040-11	BUTTON (OFF) (US,CND)	
103	A-3283-619-A	DISPLAY BOARD, COMPLETE (EXCEPT M8800:US,CND)		111	3-260-040-21	BUTTON (OFF) (AEP,UK,E)	
104	X-3384-478-1	PANEL ASSY, BRACKET		112	3-260-035-01	PANEL (FL), GUIDE	
105	1-861-811-11	FLEXIBLE BOARD		FL900	1-518-954-11	INDICATOR TUBE, FLUORESCENT	
106	X-3384-911-1	DSPL ASSY, PANEL FRONT (S)		LCD2	1-805-459-11	DISPLAY PANEL, LIQUID CRYSTAL	
107	2-626-869-01	SCREW (M2X3), SERRATION		#3	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT	

4-4. CD MECHANISM SECTION (1)
(MG-611MA-186//K)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	A-3372-455-A	CHASSIS (T) SUB ASSY		156	3-253-748-01	DAMPER (S)	
152	3-253-729-01	SPRING (LTR), TENSION COIL		157	3-352-758-31	SCREW (M1.7), TOOTHED LOCK	
153	3-253-746-13	SPRING (DAMPER), COMPRESSION		158	A-3283-359-A	SERVO BOARD, COMPLETE	
154	3-253-746-03	SPRING (DAMPER), COMPRESSION		#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	
155	3-253-695-01	SPRING (KF), TENSION COIL					

4-5. CD MECHANISM SECTION (2)
(MG-611MA-186//K)

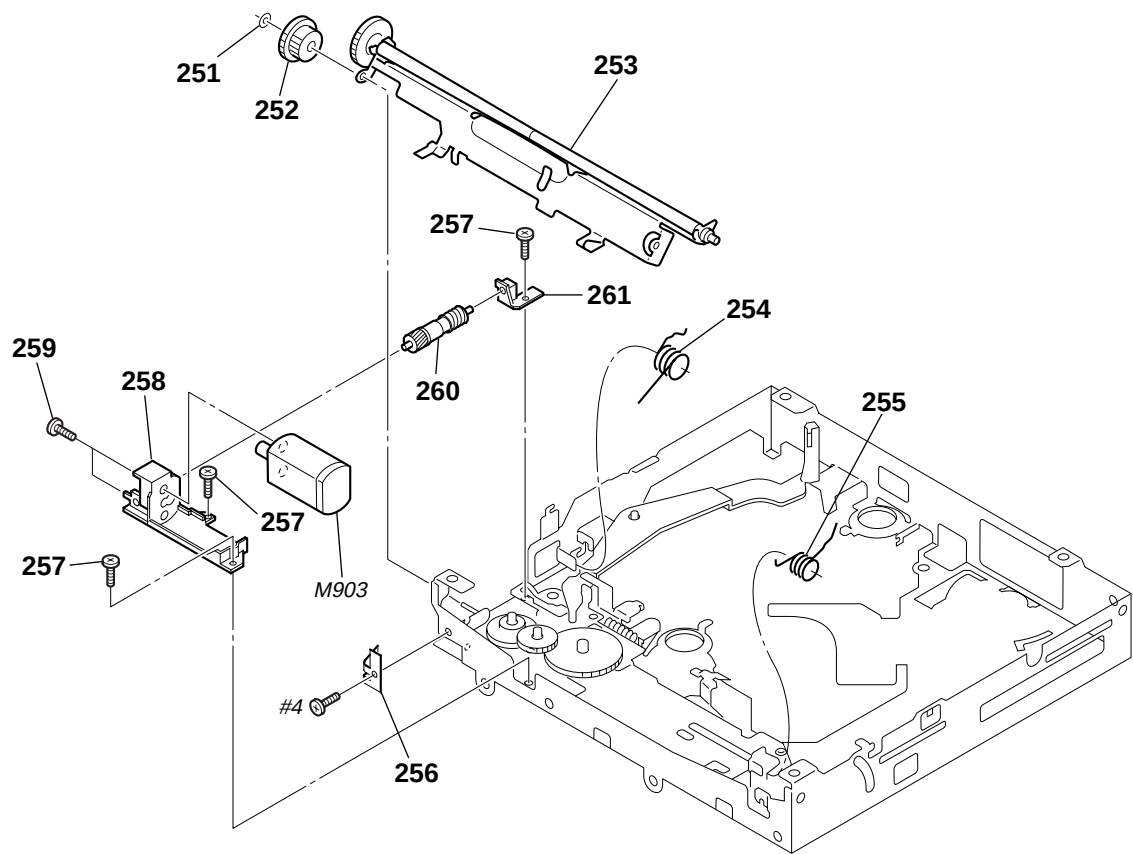


The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
--	--

Ref. No.	Part No.	Description	Remark
201	A-3337-637-A	CHASSIS (OP) COMPLETE ASSY	
202	3-316-938-91	SCREW (B1.4X5), TAPPING	
$\triangle$ 203	8-820-207-02	OPTICAL PICK-UP (KSS1000E/K1RP)	
204	A-3337-640-A	CHASSIS (OP) SUB ASSY (including M901)	
205	A-3337-641-A	ARM SUB ASSY, CHUCKING	
206	A-3337-639-A	LEVER (SL) SUB ASSY	

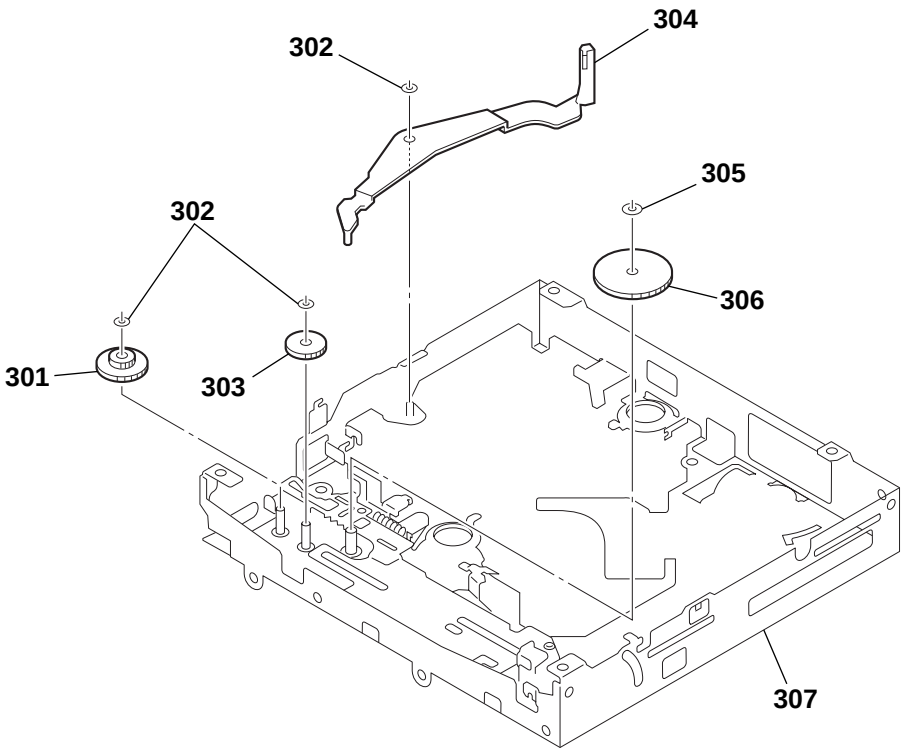
Ref. No.	Part No.	Description	Remark
207	X-3383-454-3	LEVER (SL) ASSY	
208	3-261-959-02	SPRING (SL), TORSION	
209	3-264-165-02	SCREW	
M902	A-3337-638-A	MOTOR ASSY, SL (SLED)	
SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)	
#5	7-627-850-77	SCREW, PRECISION +P 1.4X1.8	

4-6. CD MECHANISM SECTION (3)
(MG-611MA-186//K)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	3-262-755-01	WASHER (1.1-2.5)		258	3-259-467-01	BRACKET (LEM)	
252	3-259-024-01	WHEEL (RA), WORM		259	3-345-648-91	SCREW (M1.4), TOOTHED LOCK	
253	A-3337-633-A	ARM ASSY, ROLLER		260	A-3372-456-A	WORM (LEB) ASSY	
254	3-259-455-02	SPRING (RAL)		261	3-259-468-01	BEARING (LEB)	
255	3-253-713-01	SPRING (RAR)		M903	A-3372-454-A	MOTOR ASSY, LE (LOADING)	
256	3-259-469-01	SPRING (LE), LEAF		#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	
257	2-134-636-31	SCREW (M1.7X2.5)					

4-7. CD MECHANISM SECTION (4)
(MG-611MA-186//K)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	3-259-429-01	WHEEL (LE), WORM		305	3-899-829-01	WASHER (SLIT)	
302	3-344-223-01	WASHER		306	3-259-032-01	GEAR (LE2)	
303	3-259-470-01	GEAR (LE1)		307	A-3372-453-A	CHASSIS (M) BLOCK ASSY	
304	3-253-755-01	LEVER (D)					

DISPLAY

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Abbreviation
CND: Canadian model
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example:
uA.. : μ A.. uPA.. : μ PA..
uPB.. : μ PB.. uPC.. : μ PC.. uPD.. : μ PD..
- CAPACITORS
uF : μ F
- COILS
uH : μ H

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-3283-600-A	DISPLAY BOARD, COMPLETE (M8800:US,CND)		D908	8-719-056-85	DIODE UDZ-TE-17-8.2B	
	A-3283-619-A	DISPLAY BOARD, COMPLETE (EXCEPT M8800:US,CND)		D910	8-719-977-12	DIODE DTZ6.8B	
	*****			D911	8-719-977-12	DIODE DTZ6.8B	
	1-780-137-11	CONDUCTIVE BOARD, CONNECTION		D912	8-719-977-12	DIODE DTZ6.8B	
	1-780-138-11	CONDUCTIVE BOARD, CONNECTION		D913	8-719-083-66	DIODE UDZS-TE17-18B	
	3-260-035-01	PANEL (FL), GUIDE					
	3-260-053-01	SHEET (LCD KEY), DIFFUSION		D914	8-719-977-12	DIODE DTZ6.8B	
		< CAPACITOR >		D915	8-719-977-12	DIODE DTZ6.8B	
C901	1-125-837-11	CERAMIC CHIP 1uF 10% 6.3V		D916	8-719-977-12	DIODE DTZ6.8B	
C902	1-125-837-11	CERAMIC CHIP 1uF 10% 6.3V		D917	8-719-977-12	DIODE DTZ6.8B	
C903	1-162-959-11	CERAMIC CHIP 330PF 5% 50V		D918	8-719-977-12	DIODE DTZ6.8B	
C904	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V					
C905	1-124-778-00	ELECT CHIP 22uF 20% 6.3V		D919	8-719-977-12	DIODE DTZ6.8B	
				D920	8-719-977-12	DIODE DTZ6.8B	
C907	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V		D921	8-719-977-12	DIODE DTZ6.8B	
C908	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V				< FERRITE BEAD >	
C909	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V		FB60	1-500-329-21	INDUCTOR, FERRITE BEAD	
C910	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V		FB905	1-500-329-21	INDUCTOR, FERRITE BEAD	
C911	1-115-412-11	CERAMIC CHIP 680PF 5% 25V		FB906	1-500-329-21	INDUCTOR, FERRITE BEAD	
				FB912	1-500-329-21	INDUCTOR, FERRITE BEAD	
C912	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V		FB913	1-500-329-21	INDUCTOR, FERRITE BEAD	
C913	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V					
C914	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V		FB915	1-500-329-21	INDUCTOR, FERRITE BEAD	
C915	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V		FB916	1-500-329-21	INDUCTOR, FERRITE BEAD	
C916	1-164-230-11	CERAMIC CHIP 220PF 5% 50V		FB917	1-500-329-21	INDUCTOR, FERRITE BEAD	
				FB920	1-500-329-21	INDUCTOR, FERRITE BEAD	
C917	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		FB921	1-500-329-21	INDUCTOR, FERRITE BEAD	
C920	1-164-156-11	CERAMIC CHIP 0.1uF 25V					
C921	1-164-156-11	CERAMIC CHIP 0.1uF 25V		FB923	1-500-329-21	INDUCTOR, FERRITE BEAD	
C922	1-164-156-11	CERAMIC CHIP 0.1uF 25V		FB925	1-500-329-21	INDUCTOR, FERRITE BEAD	
C960	1-162-908-11	CERAMIC CHIP 3PF 0.25PF 50V		FB926	1-500-329-21	INDUCTOR, FERRITE BEAD	
				FB971	1-500-329-21	INDUCTOR, FERRITE BEAD	
C961	1-162-907-11	CERAMIC CHIP 2PF 0.25PF 50V				< FLUORESCENT INDICATOR >	
C962	1-164-156-11	CERAMIC CHIP 0.1uF 25V		FL900	1-518-954-11	INDICATOR TUBE, FLUORESCENT	
C963	1-165-319-11	CERAMIC CHIP 0.1uF 50V					
C970	1-164-156-11	CERAMIC CHIP 0.1uF 25V				< IC >	
C973	1-165-319-11	CERAMIC CHIP 0.1uF 50V		IC2	6-803-988-01	IC M30823MH-081GP	
				IC10	8-759-653-26	IC LC75878W	
C983	1-125-837-11	CERAMIC CHIP 1uF 10% 6.3V		IC62	8-759-830-18	IC RRX9000-0601#1	
				IC301	8-759-523-94	IC TC74VHC32FT(EL)	
		< CONNECTOR >				< LIQUID CRYSTAL DISPLAY >	
CNP908	1-774-678-21	CONNECTOR, FPC (ZIF) 24P					
		< DIODE >		LCD2	1-805-459-11	DISPLAY PANEL, LIQUID CRYSTAL	
D70	8-719-083-14	DIODE RRX9000-0501					
D901	8-719-977-12	DIODE DTZ6.8B					
D902	8-719-069-54	DIODE UDZS-TE17-5.1B					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< DIODE >					
LED901	6-500-475-01	LED SML-310BAT-T86 (SOURCE)	(M8800:US,CND)	LED918	8-719-053-09	LED SML-310VT-T86 (LIST) (AEP,UK,E)	
LED901	6-500-476-01	LED SML-310BA1T-T86 (SOURCE)	(EXCEPT M8800:US,CND)	LED919	6-500-476-01	LED SML-310BA1T-T86 (CLOSE)	
LED902	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)	LED919	8-719-053-09	LED SML-310VT-T86 (CLOSE)	(M8800:US,CND)
LED902	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)	LED920	6-500-476-01	LED SML-310BA1T-T86 (▲)	(EXCEPT M8800:US,CND)
LED903	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)	LED920	8-719-053-09	LED SML-310VT-T86 (▲) (M8800:US,CND)	
LED903	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)	LED921	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)
LED904	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)	LED921	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)
LED904	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)	LED922	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)
LED905	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)	LED922	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)
LED905	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)	LED923	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)
LED906	6-500-476-01	LED SML-310BA1T-T86 (VOL +)	(EXCEPT M8800:US,CND)	LED923	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)
LED906	8-719-053-09	LED SML-310VT-T86 (VOL +)	(M8800:US,CND)	LED924	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)
LED907	6-500-476-01	LED SML-310BA1T-T86 (VOL -)	(EXCEPT M8800:US,CND)	LED924	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)
LED907	8-719-053-09	LED SML-310VT-T86 (VOL -)	(M8800:US,CND)	LED925	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)
LED908	6-500-476-01	LED SML-310BA1T-T86 (SCRL)	(EXCEPT M8800:US,CND)	LED925	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)
LED908	8-719-053-09	LED SML-310VT-T86 (SCRL) (M8800:US,CND)		LED926	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)
LED909	6-500-476-01	LED SML-310BA1T-T86 (DSPL) (US,CND)		LED926	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)
LED909	8-719-053-09	LED SML-310VT-T86 (DSPL/PTY) (AEP,UK,E)		LED927	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)
LED910	6-500-476-01	LED SML-310BA1T-T86 (ATT) (US,CND)		LED927	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)
LED910	8-719-053-09	LED SML-310VT-T86 (TA) (AEP,UK,E)		LED928	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)
LED911	6-500-476-01	LED SML-310BA1T-T86 (OFF)	(EXCEPT M8800:US,CND)	LED928	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)
LED911	8-719-053-09	LED SML-310VT-T86 (OFF) (M8800:US,CND)		LED929	8-719-053-09	LED SML-310VT-T86 (RING)	
LED912	6-500-476-01	LED SML-310BA1T-T86 (ENTER)	(EXCEPT M8800:US,CND)	LED930	8-719-053-09	LED SML-310VT-T86 (RING)	
LED912	8-719-053-09	LED SML-310VT-T86 (ENTER)	(M8800:US,CND)	LED931	8-719-053-09	LED SML-310VT-T86 (OPEN) (M8800:US,CND)	
LED913	6-500-476-01	LED SML-310BA1T-T86 (DSO)	(EXCEPT M8800:US,CND)	LED931	8-719-080-04	LED CL-190UB-X-T (OPEN)	(EXCEPT M8800:US,CND)
LED913	8-719-053-09	LED SML-310VT-T86 (DSO) (M8800:US,CND)		LED932	8-719-053-09	LED SML-310VT-T86 (RING)	
LED914	6-500-476-01	LED SML-310BA1T-T86 (EQ7)	(EXCEPT M8800:US,CND)	LED933	8-719-053-09	LED SML-310VT-T86 (RING)	
LED914	8-719-053-09	LED SML-310VT-T86 (EQ7) (M8800:US,CND)		LED934	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)
LED915	6-500-476-01	LED SML-310BA1T-T86 (MODE)	(EXCEPT M8800:US,CND)	LED934	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)
LED915	8-719-053-09	LED SML-310VT-T86 (MODE)	(M8800:US,CND)	LED935	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)
LED916	6-500-476-01	LED SML-310BA1T-T86 (SOUND)	(EXCEPT M8800:US,CND)	LED935	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)
LED916	8-719-053-09	LED SML-310VT-T86 (SOUND)	(M8800:US,CND)	LED936	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)
LED917	6-500-476-01	LED SML-310BA1T-T86 (MENU)	(EXCEPT M8800:US,CND)	LED936	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)
LED917	8-719-053-09	LED SML-310VT-T86 (MENU)	(M8800:US,CND)	LED937	6-500-475-01	LED SML-310BAT-T86 (RING)	(M8800:US,CND)
LED918	6-500-476-01	LED SML-310BA1T-T86 (LIST/CAT) (US,CND)		LED937	6-500-476-01	LED SML-310BA1T-T86 (RING)	(EXCEPT M8800:US,CND)

DISPLAY

Ref. No.	Part No.	Description	Remark
LED942	6-500-475-01	LED SML-310BAT-T86 (SOURCE) (M8800:US,CND)	
LED942	6-500-476-01	LED SML-310BA1T-T86 (SOURCE) (EXCEPT M8800:US,CND)	
LED943	8-719-053-09	LED SML-310VT-T86 (IMAGE) (M8800:US,CND)	
LED943	8-719-080-04	LED CL-190UB-X-T (IMAGE) (EXCEPT M8800:US,CND)	
LED955	6-500-855-01	LED CL-490S-WF-SD-TS (LCD BACK LIGHT)	
LED957	6-500-476-01	LED SML-310BA1T-T86 (DSO) (EXCEPT M8800:US,CND)	
LED957	8-719-053-09	LED SML-310VT-T86 (DSO) (M8800:US,CND)	
LED958	6-500-476-01	LED SML-310BA1T-T86 (EQ7) (EXCEPT M8800:US,CND)	
LED958	8-719-053-09	LED SML-310VT-T86 (EQ7) (M8800:US,CND)	

< TRANSISTOR >

Q903	8-729-049-43	TRANSISTOR STB1132Y
Q904	8-729-055-94	TRANSISTOR SRC1202SF
Q905	8-729-904-66	TRANSISTOR DTD113EK-T-146
Q906	8-729-904-66	TRANSISTOR DTD113EK-T-146
Q907	8-729-216-22	TRANSISTOR 2SA1162-G
Q908	8-729-055-94	TRANSISTOR SRC1202SF
Q909	8-729-904-66	TRANSISTOR DTD113EK-T-146
Q910	8-729-904-66	TRANSISTOR DTD113EK-T-146
Q911	8-729-904-66	TRANSISTOR DTD113EK-T-146
Q912	8-729-904-66	TRANSISTOR DTD113EK-T-146
Q913	8-729-904-66	TRANSISTOR DTD113EK-T-146
Q914	8-729-904-66	TRANSISTOR DTD113EK-T-146
Q915	8-729-904-66	TRANSISTOR DTD113EK-T-146

< RESISTOR >

R901	1-216-833-11	METAL CHIP	10K	5%	1/10W
R902	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R903	1-216-037-00	METAL CHIP	330	5%	1/10W
R904	1-216-037-00	METAL CHIP	330	5%	1/10W
R905	1-218-863-11	RES-CHIP	4.7K	2%	1/16W
R906	1-218-859-11	RES-CHIP	3.3K	2%	1/16W
R907	1-218-855-11	RES-CHIP	2.2K	2%	1/16W
R908	1-218-851-11	RES-CHIP	1.5K	2%	1/16W
R909	1-218-851-11	RES-CHIP	1.5K	2%	1/16W
R910	1-218-847-11	RES-CHIP	1K	2%	1/16W
R911	1-219-286-11	RES-CHIP	680	2%	1/16W
R912	1-219-286-11	RES-CHIP	680	2%	1/16W
R913	1-219-286-11	RES-CHIP	680	2%	1/16W
R914	1-218-867-11	RES-CHIP	6.8K	2%	1/16W
R915	1-218-863-11	RES-CHIP	4.7K	2%	1/16W
R916	1-218-859-11	RES-CHIP	3.3K	2%	1/16W
R917	1-218-855-11	RES-CHIP	2.2K	2%	1/16W
R918	1-218-851-11	RES-CHIP	1.5K	2%	1/16W
R919	1-218-851-11	RES-CHIP	1.5K	2%	1/16W
R920	1-218-847-11	RES-CHIP	1K	2%	1/16W
R921	1-219-286-11	RES-CHIP	680	2%	1/16W
R922	1-219-286-11	RES-CHIP	680	2%	1/16W
R923	1-219-286-11	RES-CHIP	680	2%	1/16W
R924	1-216-037-00	METAL CHIP	330	5%	1/10W
		(EXCEPT M8800:US,CND)			
R924	1-216-049-11	RES-CHIP	1K	5%	1/10W
		(M8800:US,CND)			

Ref. No.	Part No.	Description	Remark
R925	1-216-037-00	METAL CHIP	330 5% 1/10W (EXCEPT M8800:US,CND)
R925	1-216-049-11	RES-CHIP	1K 5% 1/10W (M8800:US,CND)
R926	1-216-037-00	METAL CHIP	330 5% 1/10W (EXCEPT M8800:US,CND)
R926	1-216-049-11	RES-CHIP	1K 5% 1/10W (M8800:US,CND)
R927	1-216-037-00	METAL CHIP	330 5% 1/10W (EXCEPT M8800:US,CND)
R927	1-216-049-11	RES-CHIP	1K 5% 1/10W (M8800:US,CND)
R928	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R929	1-216-833-11	METAL CHIP	10K 5% 1/10W
R930	1-216-037-00	METAL CHIP	330 5% 1/10W (EXCEPT M8800:US,CND)
R930	1-216-049-11	RES-CHIP	1K 5% 1/10W (M8800:US,CND)
R931	1-216-037-00	METAL CHIP	330 5% 1/10W (EXCEPT M8800:US,CND)
R931	1-216-049-11	RES-CHIP	1K 5% 1/10W (M8800:US,CND)
R932	1-216-037-00	METAL CHIP	330 5% 1/10W
R933	1-216-037-00	METAL CHIP	330 5% 1/10W
R934	1-216-037-00	METAL CHIP	330 5% 1/10W
R935	1-216-033-00	METAL CHIP	220 5% 1/10W
R936	1-216-045-00	METAL CHIP	680 5% 1/10W
R937	1-216-037-00	METAL CHIP	330 5% 1/10W
R939	1-216-845-11	METAL CHIP	100K 5% 1/10W
R940	1-216-845-11	METAL CHIP	100K 5% 1/10W
R941	1-216-845-11	METAL CHIP	100K 5% 1/10W
R942	1-216-845-11	METAL CHIP	100K 5% 1/10W
R943	1-216-037-00	METAL CHIP	330 5% 1/10W
R944	1-216-845-11	METAL CHIP	100K 5% 1/10W
R945	1-216-037-00	METAL CHIP	330 5% 1/10W (EXCEPT M8800:US,CND)
R945	1-216-049-11	RES-CHIP	1K 5% 1/10W (M8800:US,CND)
R946	1-216-821-11	METAL CHIP	1K 5% 1/10W
R947	1-216-845-11	METAL CHIP	100K 5% 1/10W
R948	1-216-845-11	METAL CHIP	100K 5% 1/10W
R949	1-216-845-11	METAL CHIP	100K 5% 1/10W
R950	1-216-041-00	METAL CHIP	470 5% 1/10W
R951	1-216-037-00	METAL CHIP	330 5% 1/10W (EXCEPT M8800:US,CND)
R951	1-216-049-11	RES-CHIP	1K 5% 1/10W (M8800:US,CND)
R952	1-216-037-00	METAL CHIP	330 5% 1/10W
R953	1-216-037-00	METAL CHIP	330 5% 1/10W (EXCEPT M8800:US,CND)
R953	1-216-049-11	RES-CHIP	1K 5% 1/10W (M8800:US,CND)
R954	1-216-037-00	METAL CHIP	330 5% 1/10W (EXCEPT M8800:US,CND)
R954	1-216-049-11	RES-CHIP	1K 5% 1/10W (M8800:US,CND)
R955	1-216-049-11	RES-CHIP	1K 5% 1/10W
R956	1-216-037-00	METAL CHIP	330 5% 1/10W (EXCEPT M8800:US,CND)
R956	1-216-049-11	RES-CHIP	1K 5% 1/10W (M8800:US,CND)

DISPLAY

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R957	1-216-037-00	METAL CHIP	330	5%	1/10W	R1002	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R958	1-216-037-00	METAL CHIP	330	5%	1/10W						(EXCEPT M8800:US,CND)
					(EXCEPT M8800:US,CND)	R1002	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R958	1-216-049-11	RES-CHIP	1K	5%	1/10W						(M8800:US,CND)
					(M8800:US,CND)	R1003	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R959	1-216-037-00	METAL CHIP	330	5%	1/10W						(EXCEPT M8800:US,CND)
R960	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1003	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
											(M8800:US,CND)
R961	1-216-037-00	METAL CHIP	330	5%	1/10W						
R962	1-216-037-00	METAL CHIP	330	5%	1/10W			< SWITCH >			
R963	1-216-037-00	METAL CHIP	330	5%	1/10W						
R964	1-216-821-11	METAL CHIP	1K	5%	1/10W	S901	1-771-884-31	SWITCH, TACTILE (OFF)			
R965	1-216-821-11	METAL CHIP	1K	5%	1/10W	S902	1-771-884-31	SWITCH, TACTILE (SOURCE)			
						S903	1-771-884-31	SWITCH, TACTILE (CLOSE)			
R966	1-216-037-00	METAL CHIP	330	5%	1/10W	S904	1-771-884-31	SWITCH, TACTILE (VOL -)			
R967	1-216-864-11	METAL CHIP	0	5%	1/10W	S905	1-771-884-31	SWITCH, TACTILE (VOL +)			
R968	1-216-850-11	METAL CHIP	270K	5%	1/10W						
R969	1-216-846-11	METAL CHIP	120K	5%	1/10W	S906	1-771-884-31	SWITCH, TACTILE (ENTER)			
R970	1-216-818-11	METAL CHIP	560	5%	1/10W	S907	1-771-884-31	SWITCH, TACTILE (◀◀/▶▶)			
						S908	1-771-884-31	SWITCH, TACTILE (DSO)			
R971	1-216-017-11	RES-CHIP	47	5%	1/10W	S909	1-771-884-31	SWITCH, TACTILE (SOUND)			
R972	1-216-845-11	METAL CHIP	100K	5%	1/10W	S910	1-771-884-31	SWITCH, TACTILE (MODE)			
R973	1-216-037-00	METAL CHIP	330	5%	1/10W						
R974	1-216-037-00	METAL CHIP	330	5%	1/10W	S911	1-771-884-31	SWITCH, TACTILE (▲)			
R975	1-216-037-00	METAL CHIP	330	5%	1/10W	S912	1-771-884-31	SWITCH, TACTILE (LIST/CAT) (US,CND)			
						S912	1-771-884-31	SWITCH, TACTILE (LIST) (AEP,UK,E)			
R976	1-216-037-00	METAL CHIP	330	5%	1/10W	S913	1-771-884-31	SWITCH, TACTILE (MENU)			
R977	1-216-037-00	METAL CHIP	330	5%	1/10W	S914	1-771-884-31	SWITCH, TACTILE (EQ7)			
R978	1-216-809-11	METAL CHIP	100	5%	1/10W						
R979	1-216-809-11	METAL CHIP	100	5%	1/10W	S915	1-771-884-31	SWITCH, TACTILE (DISC -)			
R980	1-216-809-11	METAL CHIP	100	5%	1/10W	S916	1-771-884-31	SWITCH, TACTILE (▶▶/◀◀)			
						S917	1-771-884-31	SWITCH, TACTILE (DISC +)			
R981	1-216-821-11	METAL CHIP	1K	5%	1/10W	S918	1-771-884-31	SWITCH, TACTILE (SCRL)			
R982	1-216-841-11	METAL CHIP	47K	5%	1/10W	S919	1-771-884-31	SWITCH, TACTILE (DSPL) (US,CND)			
R983	1-216-049-11	RES-CHIP	1K	5%	1/10W						
R984	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	S919	1-771-884-31	SWITCH, TACTILE (DSPL/PTY) (AEP,UK,E)			
R985	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	S920	1-771-884-31	SWITCH, TACTILE (IMAGE)			
						S921	1-771-884-31	SWITCH, TACTILE (ATT) (US,CND)			
R986	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	S921	1-771-884-31	SWITCH, TACTILE (TA) (AEP,UK,E)			
R987	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	S931	1-771-884-31	SWITCH, TACTILE (OPEN)			
R988	1-216-035-00	METAL CHIP	270	5%	1/10W						
					(EXCEPT M8800:US,CND)	S932	1-771-884-31	SWITCH, TACTILE (RESET)			
R988	1-216-045-00	METAL CHIP	680	5%	1/10W			< VIBRATOR >			
					(M8800:US,CND)						
R989	1-216-035-00	METAL CHIP	270	5%	1/10W	X301	1-813-250-11	VIBRATOR, CRYSTAL (SMD) (8MHz)			
					(EXCEPT M8800:US,CND)	*****					
R989	1-216-045-00	METAL CHIP	680	5%	1/10W						
					(M8800:US,CND)	A-3283-596-A	MAIN BOARD, COMPLETE (including SPEAKER BOARD) (US,CND)				
R990	1-216-037-00	METAL CHIP	330	5%	1/10W	A-3283-622-A	MAIN BOARD, COMPLETE (including SPEAKER BOARD) (AEP,UK,E)				
R991	1-218-855-11	RES-CHIP	2.2K	2%	1/16W		*****				
R992	1-218-855-11	RES-CHIP	2.2K	2%	1/16W						
R993	1-216-053-00	METAL CHIP	1.5K	5%	1/10W						
R994	1-216-864-11	METAL CHIP	0	5%	1/10W		7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
R995	1-216-037-00	METAL CHIP	330	5%	1/10W		7-685-793-09	SCREW +PTT 2.6X8 (S)			
R996	1-216-037-00	METAL CHIP	330	5%	1/10W		7-685-795-09	SCREW +PTT 2.6X12 (S)			
R997	1-216-037-00	METAL CHIP	330	5%	1/10W			< CAPACITOR >			
R998	1-216-037-00	METAL CHIP	330	5%	1/10W						
R999	1-216-017-11	RES-CHIP	47	5%	1/10W	C101	1-126-940-11	ELECT	330uF	20%	16V
R1000	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	C102	1-126-960-11	ELECT	1uF	20%	50V
					(EXCEPT M8800:US,CND)	C103	1-131-868-81	ELECT	3300uF	20%	16V
R1000	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	C104	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
					(M8800:US,CND)	C105	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
R1001	1-216-053-00	METAL CHIP	1.5K	5%	1/10W						
					(EXCEPT M8800:US,CND)	C106	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
R1001	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	C110	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
					(M8800:US,CND)	C111	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

CDX-M8800/M8805X

MAIN

Ref. No.	Part No.	Description	Remark		
C112	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C142	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C172	1-126-963-11	ELECT	4.7uF	20%	50V
C173	1-126-964-11	ELECT	10uF	20%	50V
C178	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C182	1-126-963-11	ELECT	4.7uF	20%	50V
C183	1-126-964-11	ELECT	10uF	20%	50V
C188	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C199	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C202	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C203	1-126-961-11	ELECT	2.2uF	20%	50V
C204	1-126-965-11	ELECT	22uF	20%	50V
C205	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C206	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C207	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C208	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C209	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C210	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C212	1-126-934-11	ELECT	220uF	20%	16V
C214	1-126-964-11	ELECT	10uF	20%	50V
C215	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C216	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C217	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C218	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C219	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C221	1-104-665-11	ELECT	100uF	20%	10V
C223	1-126-964-11	ELECT	10uF	20%	50V
C224	1-104-665-11	ELECT	100uF	20%	10V
C226	1-126-964-11	ELECT	10uF	20%	50V
C242	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C271	1-126-924-11	ELECT	330uF	20%	10V
C272	1-126-963-11	ELECT	4.7uF	20%	50V
C273	1-126-964-11	ELECT	10uF	20%	50V
C274	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C278	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C282	1-126-963-11	ELECT	4.7uF	20%	50V
C283	1-126-964-11	ELECT	10uF	20%	50V
C288	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C301	1-104-665-11	ELECT	100uF	20%	10V
C302	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C303	1-104-665-11	ELECT	100uF	20%	10V
C304	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C306	1-126-965-11	ELECT	22uF	20%	50V
C308	1-126-960-11	ELECT	1uF	20%	50V
C309	1-126-960-11	ELECT	1uF	20%	50V
C311	1-125-710-11	DOUBLE LAYERS	0.1F		5.5V
C312	1-104-665-11	ELECT	100uF	20%	10V
C313	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C315	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C316	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C317	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C318	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C320	1-126-961-11	ELECT	2.2uF	20%	50V
C321	1-126-964-11	ELECT	10uF	20%	50V
C322	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C323	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C325	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description	Remark		
C332	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C333	1-126-965-11	ELECT	22uF	20%	50V
C334	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C400	1-126-964-11	ELECT	10uF	20%	50V
C401	1-126-947-11	ELECT	47uF	20%	16V
C403	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C405	1-164-160-11	CERAMIC CHIP	20PF	5%	50V
C416	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C417	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C418	1-126-964-11	ELECT	10uF	20%	50V
C419	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C420	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C421	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C422	1-104-665-11	ELECT	100uF	20%	10V
C423	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C424	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C425	1-136-154-00	FILM	0.012uF	5%	50V
C426	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C427	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C428	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C429	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C430	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C431	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C432	1-136-154-00	FILM	0.012uF	5%	50V
C433	1-126-960-11	ELECT	1uF	20%	50V
C434	1-126-960-11	ELECT	1uF	20%	50V
C435	1-126-960-11	ELECT	1uF	20%	50V
C437	1-104-665-11	ELECT	100uF	20%	10V
C438	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C439	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C440	1-104-665-11	ELECT	100uF	20%	10V
C441	1-126-964-11	ELECT	10uF	20%	50V
C442	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C443	1-126-964-11	ELECT	10uF	20%	50V
C444	1-126-964-11	ELECT	10uF	20%	50V
C445	1-126-964-11	ELECT	10uF	20%	50V
C446	1-126-964-11	ELECT	10uF	20%	50V
C447	1-126-964-11	ELECT	10uF	20%	50V
C448	1-126-964-11	ELECT	10uF	20%	50V
C449	1-126-964-11	ELECT	10uF	20%	50V
C450	1-126-964-11	ELECT	10uF	20%	50V
C451	1-126-964-11	ELECT	10uF	20%	50V
C470	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C475	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C502	1-126-964-11	ELECT	10uF	20%	50V
C503	1-126-963-11	ELECT	4.7uF	20%	50V
C505	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C506	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C507	1-126-934-11	ELECT	220uF	20%	16V
C508	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C509	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C510	1-135-834-11	CERAMIC CHIP	2.2uF		6.3V
C511	1-126-940-11	ELECT	330uF	20%	16V
C512	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C542	1-162-962-11	CERAMIC CHIP	470PF	10%	50V

(AEP,UK,E)
50V
50V
(US,CND)
16V

Ref. No.	Part No.	Description	Remark		Ref. No.	Part No.	Description	Remark
C550	1-162-920-11	CERAMIC CHIP	27PF	5%	50V (AEP,UK,E)		< DIODE >	
C551	1-162-920-11	CERAMIC CHIP	27PF	5%	50V (AEP,UK,E)	D101	8-719-083-66	DIODE UDZS-TE17-18B
C552	1-164-156-11	CERAMIC CHIP	0.1uF		25V (AEP,UK,E)	D102	8-719-083-66	DIODE UDZS-TE17-18B
C553	1-126-786-11	ELECT	47uF	20%	16V (AEP,UK,E)	D103	8-719-420-51	DIODE MA729
C554	1-164-156-11	CERAMIC CHIP	0.1uF		25V (AEP,UK,E)	D104	8-719-069-56	DIODE UDZS-TE17-6.2B
C555	1-135-834-11	CERAMIC CHIP	2.2uF		6.3V (AEP,UK,E)	D105	8-719-083-66	DIODE UDZS-TE17-18B
C556	1-164-739-11	CERAMIC CHIP	560PF	5%	50V (AEP,UK,E)	D106	8-719-977-12	DIODE DTZ6.8B
C557	1-162-959-11	CERAMIC CHIP	330PF	5%	50V (AEP,UK,E)	D108	8-719-083-66	DIODE UDZS-TE17-18B
C558	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK,E)	D109	8-719-049-38	DIODE 1N5404TU
C620	1-104-665-11	ELECT	100uF	20%	10V	D110	8-719-053-18	DIODE 1SR154-400TE-25
C621	1-128-576-11	ELECT	100uF	20%	63V	D111	8-719-053-18	DIODE 1SR154-400TE-25
C622	1-126-934-11	ELECT	220uF	20%	16V	D112	8-719-053-18	DIODE 1SR154-400TE-25
C623	1-126-964-11	ELECT	10uF	20%	50V	D113	8-719-053-18	DIODE 1SR154-400TE-25
C624	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	D114	8-719-053-18	DIODE 1SR154-400TE-25
C625	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	D115	8-719-053-18	DIODE 1SR154-400TE-25
C626	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D116	8-719-053-18	DIODE 1SR154-400TE-25
C627	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	D117	8-719-053-18	DIODE 1SR154-400TE-25
C628	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D118	6-500-508-01	DIODE RR263M-400FTR
C629	1-104-665-11	ELECT	100uF	20%	10V	D119	6-500-508-01	DIODE RR263M-400FTR
C701	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D120	6-500-508-01	DIODE RR263M-400FTR
C702	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D121	6-500-508-01	DIODE RR263M-400FTR
C703	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D122	8-719-977-12	DIODE DTZ6.8B
C704	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D123	8-719-083-66	DIODE UDZS-TE17-18B
C705	1-126-947-11	ELECT	47uF	20%	16V	D301	8-719-420-51	DIODE MA729
C706	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D302	8-719-420-51	DIODE MA729
C707	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D303	8-719-420-51	DIODE MA729
C708	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D304	8-719-080-34	DIODE SDS511
C709	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D305	8-719-080-34	DIODE SDS511
C801	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D401	8-719-404-50	DIODE MA111-TX
C901	1-126-965-11	ELECT	22uF	20%	50V	D403	8-719-069-55	DIODE UDZS-TE17-5.6B
C903	1-126-963-11	ELECT	4.7uF	20%	50V	D501	8-719-069-55	DIODE UDZS-TE17-5.6B
C928	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D620	8-719-053-18	DIODE 1SR154-400TE-25
C930	1-126-965-11	ELECT	22uF	20%	50V	D621	8-719-053-18	DIODE 1SR154-400TE-25
< CONNECTOR >					D622	8-719-055-33	DIODE D1FL40	
* CN401	1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P			D623	8-719-055-30	DIODE D1FS4A-TA	
* CN506	1-563-608-11	CONNECTOR, FLEXIBLE 5P			D624	8-719-055-30	DIODE D1FS4A-TA	
* CN902	1-566-760-11	PIN, CONNECTOR (PC BOARD) 5P			D625	8-719-083-66	DIODE UDZS-TE17-18B	
CNP101	1-774-701-21	PIN, CONNECTOR 16P			D626	8-719-069-54	DIODE UDZS-TE17-5.1B	
CNP102	1-580-907-41	PLUG, CONNECTOR (BUS CONTROL IN)			D627	8-719-420-51	DIODE MA729	
CNP301	1-817-536-11	CONNECTOR, BOARD TO BOARD 28P			D703	8-719-078-31	DIODE SDS2836F	
CNP909	1-774-677-21	CONNECTOR, FPC (ZIF) 24P			D808	8-719-977-12	DIODE DTZ6.8B	
< JACK >					D810	8-719-977-12	DIODE DTZ6.8B	
CNJ101	1-764-270-21	JACK, STEREO MINIATURE (DIA.3.5) (REMOTE IN)			D819	8-719-977-12	DIODE DTZ6.8B	
					D822	8-719-977-12	DIODE DTZ6.8B	
					D825	8-719-977-12	DIODE DTZ6.8B	
					D826	8-719-977-12	DIODE DTZ6.8B	
					D827	8-719-977-12	DIODE DTZ6.8B	
					D828	8-719-977-12	DIODE DTZ6.8B	
					D829	8-719-977-12	DIODE DTZ6.8B	
					D831	8-719-977-12	DIODE DTZ6.8B	
					D832	8-719-080-34	DIODE SDS511	
					D843	8-719-977-12	DIODE DTZ6.8B	
					D904	8-719-080-34	DIODE SDS511	
					D906	8-719-420-51	DIODE MA729	
					D907	8-719-080-34	DIODE SDS511	
					D909	8-719-080-34	DIODE SDS511	
					D910	8-719-069-55	DIODE UDZS-TE17-5.6B	

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MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< FERRITE BEAD >							
FB324	1-414-813-11	FERRITE, EMI (SMD)		Q380	8-729-055-95	TRANSISTOR SRC1204SF (AEP,UK,E)	
FB401	1-414-813-11	FERRITE, EMI (SMD)		Q401	8-729-055-95	TRANSISTOR SRC1204SF	
FB402	1-414-813-11	FERRITE, EMI (SMD)		Q402	8-729-055-91	TRANSISTOR SRA2202SF	
FB501	1-414-813-11	FERRITE, EMI (SMD) (AEP,UK,E)		Q408	8-729-053-84	FET SSM3K09FU(T5LSONY1)	
< IC >				Q450	6-550-752-01	TRANSISTOR DTC614TKT146	
IC110	8-759-449-89	IC BA8270F-E2		Q451	6-550-752-01	TRANSISTOR DTC614TKT146	
IC201	6-705-359-01	IC TDA8588AJ/N2		Q452	6-550-752-01	TRANSISTOR DTC614TKT146	
IC271	6-703-373-01	IC LC89052T-TLM-E		Q453	6-550-752-01	TRANSISTOR DTC614TKT146	
IC272	8-759-491-50	IC TC74VHCT244AFT(EL)		Q470	6-550-752-01	TRANSISTOR DTC614TKT146	
IC273	8-759-679-05	IC TC7WH34FU(Te12R)		Q501	8-729-920-85	TRANSISTOR 2SD1664-QR	
IC302	8-759-658-25	IC PST3432UL		Q620	8-729-048-72	TRANSISTOR 2SK2615	
IC303	6-803-986-01	IC M30624MGP-124GP		Q621	8-729-055-91	TRANSISTOR SRA2202SF	
IC401	6-703-303-01	IC TDA7416		Q622	8-729-055-95	TRANSISTOR SRC1204SF	
IC402	6-703-419-01	IC LA2901V-TLM-E		Q623	8-729-055-95	TRANSISTOR SRC1204SF	
IC431	8-759-385-17	IC NJM4580E(Te2)		Q624	6-550-828-01	TRANSISTOR RSQ035P03TR	
IC451	8-759-385-17	IC NJM4580E(Te2)		Q907	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
IC470	8-759-385-17	IC NJM4580E(Te2)		Q914	8-729-055-92	TRANSISTOR SRA2203SF	
IC550	8-759-650-68	IC SAA6588T/V2-118 (AEP,UK,E)		Q915	8-729-015-11	TRANSISTOR 2SD1802FAST-TL	
IC620	6-705-542-01	IC NJM2377M(Te2)		Q916	8-729-055-96	TRANSISTOR SRC1203SF	
IC701	8-759-337-40	IC NJM2904V(Te2)		< RESISTOR >			
IC702	8-759-527-33	IC LB1930M-TLM-E		R101	1-216-835-11	METAL CHIP 15K 5% 1/10W	
IC703	8-759-668-14	IC PQ09DZ1U		R102	1-216-821-11	METAL CHIP 1K 5% 1/10W	
< JUMPER RESISTOR >				R103	1-216-821-11	METAL CHIP 1K 5% 1/10W	
JR301	1-216-864-11	METAL CHIP 0 5% 1/10W	(AEP,UK,E)	R104	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
JR302	1-216-864-11	METAL CHIP 0 5% 1/10W	(US,CND)	R105	1-216-841-11	METAL CHIP 47K 5% 1/10W	
< COIL >				R106	1-216-841-11	METAL CHIP 47K 5% 1/10W	
L101	1-456-617-11	COIL, CHOKE 250uH		R107	1-216-073-00	RES-CHIP 10K 5% 1/10W	
L303	1-414-398-11	INDUCTOR 10uH		R108	1-216-073-00	RES-CHIP 10K 5% 1/10W	
L324	1-216-296-11	SHORT CHIP 0		R109	1-216-833-11	METAL CHIP 10K 5% 1/10W	
L502	1-414-394-41	INDUCTOR 2.2uH		R110	1-216-833-11	METAL CHIP 10K 5% 1/10W	
L503	1-414-394-41	INDUCTOR 2.2uH		R111	1-216-841-11	METAL CHIP 47K 5% 1/10W	
L620	1-456-729-21	COIL, POWER		R112	1-216-821-11	METAL CHIP 1K 5% 1/10W	
L901	1-414-394-41	INDUCTOR 2.2uH		R114	1-216-809-11	METAL CHIP 100 5% 1/10W	
< JACK >				R115	1-216-809-11	METAL CHIP 100 5% 1/10W	
PJ401	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN/AUX IN, AUDIO OUT REAR/FRONT)		R116	1-216-809-11	METAL CHIP 100 5% 1/10W	
PJ501	1-793-598-11	JACK (ANTENNA)		R119	1-216-833-11	METAL CHIP 10K 5% 1/10W	
< TRANSISTOR >				R142	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
Q101	8-729-055-94	TRANSISTOR SRC1202SF		R143	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q102	8-729-049-40	TRANSISTOR 2SC5343SFG		R174	1-216-813-11	METAL CHIP 220 5% 1/10W	
Q103	8-729-049-40	TRANSISTOR 2SC5343SFG		R175	1-216-841-11	METAL CHIP 47K 5% 1/10W	
Q110	8-729-055-92	TRANSISTOR SRA2203SF		R184	1-216-813-11	METAL CHIP 220 5% 1/10W	
Q111	8-729-055-92	TRANSISTOR SRA2203SF		R185	1-216-841-11	METAL CHIP 47K 5% 1/10W	
Q112	8-729-055-96	TRANSISTOR SRC1203SF		R201	1-216-841-11	METAL CHIP 47K 5% 1/10W	
Q113	8-729-055-96	TRANSISTOR SRC1203SF		R202	1-216-809-11	METAL CHIP 100 5% 1/10W	
Q171	6-550-752-01	TRANSISTOR DTC614TKT146		R203	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q181	6-550-752-01	TRANSISTOR DTC614TKT146		R204	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q271	6-550-752-01	TRANSISTOR DTC614TKT146		R205	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q281	6-550-752-01	TRANSISTOR DTC614TKT146		R206	1-216-821-11	METAL CHIP 1K 5% 1/10W	
				R242	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
				R243	1-216-833-11	METAL CHIP 10K 5% 1/10W	
				R274	1-216-813-11	METAL CHIP 220 5% 1/10W	
				R275	1-216-841-11	METAL CHIP 47K 5% 1/10W	
				R284	1-216-813-11	METAL CHIP 220 5% 1/10W	
				R285	1-216-841-11	METAL CHIP 47K 5% 1/10W	
				R302	1-216-809-11	METAL CHIP 100 5% 1/10W	
				R303	1-216-830-11	METAL CHIP 5.6K 5% 1/10W	
				R304	1-216-836-11	METAL CHIP 18K 5% 1/10W	
				R305	1-216-845-11	METAL CHIP 100K 5% 1/10W	

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R306	1-216-809-11	METAL CHIP	100	5%	1/10W	R436	1-218-725-11	METAL CHIP	24K	5%	1/10W
R307	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R437	1-216-833-11	METAL CHIP	10K	5%	1/10W
R308	1-216-864-11	METAL CHIP	0	5%	1/10W	R438	1-216-835-11	METAL CHIP	15K	5%	1/10W
R309	1-216-864-11	METAL CHIP	0	5%	1/10W	R447	1-216-845-11	METAL CHIP	100K	5%	1/10W
R319	1-216-821-11	METAL CHIP	1K	5%	1/10W	R448	1-216-845-11	METAL CHIP	100K	5%	1/10W
R322	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R449	1-216-835-11	METAL CHIP	15K	5%	1/10W
R323	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R450	1-216-833-11	METAL CHIP	10K	5%	1/10W
R324	1-216-845-11	METAL CHIP	100K	5%	1/10W	R451	1-216-835-11	METAL CHIP	15K	5%	1/10W
R325	1-216-845-11	METAL CHIP	100K	5%	1/10W	R452	1-216-833-11	METAL CHIP	10K	5%	1/10W
R326	1-216-853-11	METAL CHIP	470K	5%	1/10W	R453	1-216-845-11	METAL CHIP	100K	5%	1/10W
R327	1-216-845-11	METAL CHIP	100K	5%	1/10W	R454	1-216-845-11	METAL CHIP	100K	5%	1/10W
R328	1-216-845-11	METAL CHIP	100K	5%	1/10W	R455	1-216-835-11	METAL CHIP	15K	5%	1/10W
R332	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R456	1-216-833-11	METAL CHIP	10K	5%	1/10W
R333	1-216-809-11	METAL CHIP	100	5%	1/10W	R457	1-216-813-11	METAL CHIP	220	5%	1/10W
R335	1-216-837-11	METAL CHIP	22K	5%	1/10W	R458	1-216-813-11	METAL CHIP	220	5%	1/10W
R342	1-216-845-11	METAL CHIP	100K	5%	1/10W	R459	1-216-813-11	METAL CHIP	220	5%	1/10W
R346	1-216-833-11	METAL CHIP	10K	5%	1/10W	R460	1-216-813-11	METAL CHIP	220	5%	1/10W
R350	1-216-809-11	METAL CHIP	100	5%	1/10W	R461	1-216-841-11	METAL CHIP	47K	5%	1/10W
R351	1-216-809-11	METAL CHIP	100	5%	1/10W	R462	1-216-841-11	METAL CHIP	47K	5%	1/10W
R356	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R463	1-216-841-11	METAL CHIP	47K	5%	1/10W
R357	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R464	1-216-841-11	METAL CHIP	47K	5%	1/10W
R360	1-216-845-11	METAL CHIP	100K	5%	1/10W	R471	1-216-864-11	METAL CHIP	0	5%	1/10W
R361	1-216-864-11	METAL CHIP	0	5%	(US,CND) (AEP,UK,E)	R472	1-216-835-11	METAL CHIP	15K	5%	1/10W
R363	1-216-845-11	METAL CHIP	100K	5%	1/10W	R473	1-216-833-11	METAL CHIP	10K	5%	1/10W
R364	1-216-845-11	METAL CHIP	100K	5%	1/10W	R477	1-216-841-11	METAL CHIP	47K	5%	1/10W
R365	1-216-845-11	METAL CHIP	100K	5%	1/10W	R501	1-216-821-11	METAL CHIP	1K	5%	1/10W
R366	1-216-845-11	METAL CHIP	100K	5%	1/10W	R502	1-216-864-11	METAL CHIP	0	5%	1/10W
R367	1-216-845-11	METAL CHIP	100K	5%	1/10W	R503	1-216-864-11	METAL CHIP	0	5%	1/10W
R372	1-216-809-11	METAL CHIP	100	5%	1/10W	R504	1-216-864-11	METAL CHIP	0	5%	1/10W
R377	1-216-845-11	METAL CHIP	100K	5%	1/10W	R505	1-414-394-41	INDUCTOR	2.2uH		
R380	1-216-809-11	METAL CHIP	100	5%	1/10W	R506	1-216-864-11	METAL CHIP	0	5%	1/10W
R401	1-216-017-11	RES-CHIP	47	5%	1/10W	R550	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R402	1-216-813-11	METAL CHIP	220	5%	1/10W	R551	1-216-817-11	METAL CHIP	470	5%	(AEP,UK,E)
R403	1-216-864-11	METAL CHIP	0	5%	1/10W	R552	1-216-797-11	METAL CHIP	10	5%	(AEP,UK,E)
R407	1-216-841-11	METAL CHIP	47K	5%	1/10W	R553	1-216-797-11	METAL CHIP	10	5%	(AEP,UK,E)
R408	1-216-809-11	METAL CHIP	100	5%	1/10W	R620	1-216-230-00	RES-CHIP	22K	5%	1/8W
R414	1-216-833-11	METAL CHIP	10K	5%	1/10W	R621	1-216-230-00	RES-CHIP	22K	5%	1/8W
R415	1-216-833-11	METAL CHIP	10K	5%	1/10W	R622	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R416	1-216-809-11	METAL CHIP	100	5%	1/10W	R623	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R417	1-216-809-11	METAL CHIP	100	5%	1/10W	R624	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R418	1-216-809-11	METAL CHIP	100	5%	1/10W	R625	1-216-809-11	METAL CHIP	100	5%	1/10W
R419	1-216-809-11	METAL CHIP	100	5%	1/10W	R626	1-216-848-11	METAL CHIP	180K	5%	1/10W
R420	1-216-833-11	METAL CHIP	10K	5%	1/10W	R627	1-216-846-11	METAL CHIP	120K	5%	1/10W
R421	1-216-833-11	METAL CHIP	10K	5%	1/10W	R628	1-216-841-11	METAL CHIP	47K	5%	1/10W
R422	1-216-813-11	METAL CHIP	220	5%	1/10W	R629	1-216-833-11	METAL CHIP	10K	5%	1/10W
R424	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R630	1-216-837-11	METAL CHIP	22K	5%	1/10W
R426	1-216-864-11	METAL CHIP	0	5%	1/10W	R631	1-216-833-11	METAL CHIP	10K	5%	1/10W
R427	1-216-864-11	METAL CHIP	0	5%	1/10W	R632	1-216-841-11	METAL CHIP	47K	5%	1/10W
R429	1-202-926-11	METAL CHIP	36K	5%	1/10W	R633	1-216-809-11	METAL CHIP	100	5%	1/10W
R430	1-218-725-11	METAL CHIP	24K	5%	1/10W	R634	1-216-833-11	METAL CHIP	10K	5%	1/10W
R431	1-202-926-11	METAL CHIP	36K	5%	1/10W	R635	1-216-864-11	METAL CHIP	0	5%	1/10W
R432	1-218-725-11	METAL CHIP	24K	5%	1/10W	R636	1-216-839-11	METAL CHIP	33K	5%	1/10W
R433	1-202-926-11	METAL CHIP	36K	5%	1/10W	R706	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R434	1-218-725-11	METAL CHIP	24K	5%	1/10W	R707	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R435	1-202-926-11	METAL CHIP	36K	5%	1/10W	R708	1-216-845-11	METAL CHIP	100K	5%	1/10W

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MAIN

SENSOR

SERVO

Ref. No.	Part No.	Description			Remark
R709	1-216-833-11	METAL CHIP	10K	5%	1/10W
R710	1-218-236-11	RES-CHIP	1	10%	1/4W
R711	1-218-236-11	RES-CHIP	1	10%	1/4W
R811	1-216-845-11	METAL CHIP	100K	5%	1/10W
R812	1-216-845-11	METAL CHIP	100K	5%	1/10W
R833	1-216-821-11	METAL CHIP	1K	5%	1/10W
R845	1-216-049-11	RES-CHIP	1K	5%	1/10W
R866	1-216-821-11	METAL CHIP	1K	5%	1/10W
R910	1-216-845-11	METAL CHIP	100K	5%	1/10W
R915	1-216-845-11	METAL CHIP	100K	5%	1/10W
R920	1-216-073-00	RES-CHIP	10K	5%	1/10W
R921	1-216-073-00	RES-CHIP	10K	5%	1/10W
R922	1-216-845-11	METAL CHIP	100K	5%	1/10W
R929	1-216-837-11	METAL CHIP	22K	5%	1/10W
R949	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R950	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
< TRANSFORMER >					
T620	1-443-323-11	TRANSFORMER, DC-DC CONVERTER			
< THERMISTOR (POSITIVE) >					
TH100	1-801-792-21	THERMISTOR, POSITIVE			
TH301	1-810-812-21	THERMISTOR, NTC (1608)			
< TUNER >					
TUX501	A-3220-959-A	TUNER UNIT (TUX-032)			
< VIBRATOR >					
X301	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)			
X302	1-813-254-11	VIBRATOR, CRYSTAL (6MHz)			
X550	1-579-900-21	VIBRATOR, CRYSTAL (4.3MHz) (AEP,UK,E)			

SENSOR BOARD					

< SWITCH >					
SW2	1-529-566-61	SWITCH, PUSH (1 KEY) (SELF)			
SW3	1-529-566-61	SWITCH, PUSH (1 KEY) (DISC IN)			

A-3283-359-A SERVO BOARD, COMPLETE					

< CAPACITOR >					
C1	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C2	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C7	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C8	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C10	1-104-609-11	ELECT CHIP	100uF	20%	4V
C11	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C13	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C14	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C16	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description	Remark		
C18	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C19	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C21	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C22	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C23	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C24	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C25	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C26	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C27	1-126-208-21	ELECT CHIP	47uF	20%	4V
C28	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C29	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C30	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C32	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C33	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C34	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C35	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C37	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C38	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C39	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C40	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C41	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C42	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C43	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C44	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C45	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C46	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C47	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C48	1-104-609-11	ELECT CHIP	100uF	20%	4V
C49	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C50	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C51	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C52	1-100-381-11	ELECT CHIP	10uF	20%	16V
C53	1-100-381-11	ELECT CHIP	10uF	20%	16V
C54	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C55	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C56	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C57	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C58	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C59	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C60	1-100-381-11	ELECT CHIP	10uF	20%	16V
C63	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C64	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C65	1-126-208-21	ELECT CHIP	47uF	20%	4V
C66	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C67	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C74	1-126-208-21	ELECT CHIP	47uF	20%	4V
C75	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C77	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C79	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C83	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C85	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C86	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C91	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C92	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C109	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C115	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
< CONNECTOR >													
CN1	1-794-153-21	CONNECTOR, FPC (ZIF) 16P				R42	1-218-965-11	RES-CHIP	10K	5%	1/16W		
	CN2	1-817-275-21	CONNECTOR, BOARD TO BOARD 28P				R43	1-218-977-11	RES-CHIP	100K	5%	1/16W	
< JUMPER RESISTOR >													
FB1	1-216-864-11	METAL CHIP	0	5%	1/10W	R44	1-218-957-11	RES-CHIP	2.2K	5%	1/16W		
FB2	1-216-864-11	METAL CHIP	0	5%	1/10W	R45	1-218-971-11	RES-CHIP	33K	5%	1/16W		
FB5	1-216-864-11	METAL CHIP	0	5%	1/10W	R46	1-218-957-11	RES-CHIP	2.2K	5%	1/16W		
< IC >													
IC1	6-705-366-01	IC LA6560-TE-L-E				R47	1-218-977-11	RES-CHIP	100K	5%	1/16W		
IC3	8-753-216-86	IC CXD3059BR				R48	1-218-941-81	RES-CHIP	100	5%	1/16W		
IC4	6-804-028-01	IC MB90487PFV-G-105-BNDE1				R49	1-218-953-11	RES-CHIP	1K	5%	1/16W		
IC7	6-705-364-01	IC R1114N151D-TR-FA				R50	1-218-941-81	RES-CHIP	100	5%	1/16W		
IC8	6-705-365-01	IC TC94A34FG-002				R52	1-218-941-81	RES-CHIP	100	5%	1/16W		
< TRANSISTOR >													
Q1	8-729-904-87	TRANSISTOR 2SB1197K-R				R53	1-218-959-11	RES-CHIP	3.3K	5%	1/16W		
Q2	8-729-928-90	TRANSISTOR DTC114EE				R54	1-218-961-11	RES-CHIP	4.7K	5%	1/16W		
Q3	8-729-904-87	TRANSISTOR 2SB1197K-R				R55	1-218-953-11	RES-CHIP	1K	5%	1/16W		
Q5	8-729-904-87	TRANSISTOR 2SB1197K-R				R56	1-218-973-11	RES-CHIP	47K	5%	1/16W		
Q6	8-729-928-90	TRANSISTOR DTC114EE				R57	1-218-941-81	RES-CHIP	100	5%	1/16W		
< RESISTOR >													
R1	1-218-941-81	RES-CHIP	100	5%	1/16W	R59	1-218-941-81	RES-CHIP	100	5%	1/16W		
R2	1-218-971-11	RES-CHIP	33K	5%	1/16W	R60	1-218-990-11	SHORT CHIP	0				
R3	1-218-971-11	RES-CHIP	33K	5%	1/16W	R61	1-218-985-11	RES-CHIP	470K	5%	1/16W		
R4	1-218-965-11	RES-CHIP	10K	5%	1/16W	R62	1-218-965-11	RES-CHIP	10K	5%	1/16W		
R5	1-218-965-11	RES-CHIP	10K	5%	1/16W	R64	1-218-941-81	RES-CHIP	100	5%	1/16W		
R6	1-218-965-11	RES-CHIP	10K	5%	1/16W	R65	1-218-941-81	RES-CHIP	100	5%	1/16W		
R7	1-208-635-11	RES-CHIP	10	5%	1/16W	R67	1-218-941-81	RES-CHIP	100	5%	1/16W		
R8	1-218-971-11	RES-CHIP	33K	5%	1/16W	R68	1-218-990-11	SHORT CHIP	0				
R9	1-218-971-11	RES-CHIP	33K	5%	1/16W	R69	1-218-973-11	RES-CHIP	47K	5%	1/16W		
R10	1-218-965-11	RES-CHIP	10K	5%	1/16W	R70	1-218-945-11	RES-CHIP	220	5%	1/16W		
R11	1-218-965-11	RES-CHIP	10K	5%	1/16W	R71	1-218-941-81	RES-CHIP	100	5%	1/16W		
R12	1-208-635-11	RES-CHIP	10	5%	1/16W	R72	1-218-990-11	SHORT CHIP	0				
R13	1-218-965-11	RES-CHIP	10K	5%	1/16W	R73	1-218-941-81	RES-CHIP	100	5%	1/16W		
R14	1-218-990-11	SHORT CHIP	0			R74	1-218-941-81	RES-CHIP	100	5%	1/16W		
R15	1-218-990-11	SHORT CHIP	0			R76	1-218-941-81	RES-CHIP	100	5%	1/16W		
R16	1-218-990-11	SHORT CHIP	0			R77	1-218-947-11	RES-CHIP	330	5%	1/16W		
R17	1-218-965-11	RES-CHIP	10K	5%	1/16W	R78	1-218-941-81	RES-CHIP	100	5%	1/16W		
R18	1-218-965-11	RES-CHIP	10K	5%	1/16W	R79	1-218-941-81	RES-CHIP	100	5%	1/16W		
R19	1-218-969-11	RES-CHIP	22K	5%	1/16W	R80	1-218-977-11	RES-CHIP	100K	5%	1/16W		
R20	1-218-969-11	RES-CHIP	22K	5%	1/16W	R81	1-218-941-81	RES-CHIP	100	5%	1/16W		
R21	1-218-990-11	SHORT CHIP	0			R85	1-218-973-11	RES-CHIP	47K	5%	1/16W		
R22	1-218-967-11	RES-CHIP	15K	5%	1/16W	R86	1-218-973-11	RES-CHIP	47K	5%	1/16W		
R23	1-218-967-11	RES-CHIP	15K	5%	1/16W	R87	1-218-973-11	RES-CHIP	47K	5%	1/16W		
R24	1-218-953-11	RES-CHIP	1K	5%	1/16W	R91	1-220-200-81	RES-CHIP	30K	5%	1/16W		
R25	1-218-953-11	RES-CHIP	1K	5%	1/16W	R92	1-218-971-11	RES-CHIP	33K	5%	1/16W		
R26	1-218-981-11	RES-CHIP	220K	5%	1/16W	R96	1-218-990-11	SHORT CHIP	0				
R27	1-218-965-11	RES-CHIP	10K	5%	1/16W	R97	1-218-941-81	RES-CHIP	100	5%	1/16W		
R28	1-218-990-11	SHORT CHIP	0			R98	1-218-941-81	RES-CHIP	100	5%	1/16W		
R29	1-218-977-11	RES-CHIP	100K	5%	1/16W	R99	1-218-965-11	RES-CHIP	10K	5%	1/16W		
R37	1-218-990-11	SHORT CHIP	0			R101	1-218-969-11	RES-CHIP	22K	5%	1/16W		
R38	1-218-967-11	RES-CHIP	15K	5%	1/16W	R102	1-218-990-11	SHORT CHIP	0				
R39	1-218-941-81	RES-CHIP	100	5%	1/16W	R106	1-218-969-11	RES-CHIP	22K	5%	1/16W		
R40	1-218-990-11	SHORT CHIP	0			R107	1-218-965-11	RES-CHIP	10K	5%	1/16W		
R41	1-218-985-11	RES-CHIP	470K	5%	1/16W	R108	1-218-941-81	RES-CHIP	100	5%	1/16W		
						R109	1-218-953-11	RES-CHIP	1K	5%	1/16W		
						R110	1-218-945-11	RES-CHIP	220	5%	1/16W		
						R111	1-218-990-11	SHORT CHIP	0				
						R114	1-218-941-81	RES-CHIP	100	5%	1/16W		
						R115	1-218-941-81	RES-CHIP	100	5%	1/16W		
						R116	1-218-941-81	RES-CHIP	100	5%	1/16W		
						R117	1-218-990-11	SHORT CHIP	0				
						R119	1-218-941-81	RES-CHIP	100	5%	1/16W		
						R122	1-218-965-11	RES-CHIP	10K	5%	1/16W		

Ref. No.	Part No.	Description	Remark		
R123	1-218-990-11	SHORT CHIP	0		
R124	1-216-864-11	METAL CHIP	0	5%	1/10W
R126	1-218-965-11	RES-CHIP	10K	5%	1/16W
R127	1-218-965-11	RES-CHIP	10K	5%	1/16W
R128	1-218-965-11	RES-CHIP	10K	5%	1/16W
R129	1-218-965-11	RES-CHIP	10K	5%	1/16W
R133	1-216-864-11	METAL CHIP	0	5%	1/10W
R136	1-218-977-11	RES-CHIP	100K	5%	1/16W
R139	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R140	1-218-941-81	RES-CHIP	100	5%	1/16W
R141	1-218-941-81	RES-CHIP	100	5%	1/16W
R142	1-218-941-81	RES-CHIP	100	5%	1/16W
R143	1-218-941-81	RES-CHIP	100	5%	1/16W
R144	1-218-965-11	RES-CHIP	10K	5%	1/16W
R145	1-218-977-11	RES-CHIP	100K	5%	1/16W
R146	1-218-941-81	RES-CHIP	100	5%	1/16W
R147	1-218-941-81	RES-CHIP	100	5%	1/16W
R148	1-218-941-81	RES-CHIP	100	5%	1/16W
< SWITCH >					
SW1	1-529-565-61	SWITCH, PUSH (1 KEY) (DOWN)			
< VIBRATOR >					
X1	1-795-561-21	VIBRATOR, CERAMIC (16.9344MHz)			
X2	1-795-822-21	VIBRATOR, CERAMIC (18.43MHz)			

SUB BOARD					

< CAPACITOR >					
C533	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C536	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C537	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C538	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C539	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C540	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C541	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
< DIODE >					
D506	8-719-069-54	DIODE UDZS-TE17-5.1B			
D507	8-719-977-12	DIODE DTZ6.8B			
D511	8-719-083-66	DIODE UDZS-TE17-18B			
D512	8-719-079-10	LED CL-220UB-X-TS (DISC IN)			
D513	8-719-083-14	LED RRX9000-0501 (HI IR)			
D514	8-719-080-34	DIODE SDS511			
< FERRITE BEAD >					
FB503	1-500-329-21	INDUCTOR, FERRITE BEAD			
< IC >					
IC503	8-759-830-18	IC RRX9000-0601#1			
< TRANSISTOR >					
Q503	8-729-216-22	TRANSISTOR 2SA1162-G			
Q504	8-729-055-94	TRANSISTOR SRC1202SF			

Ref. No.	Part No.	Description	Remark		
< RESISTOR >					
R509	1-216-846-11	METAL CHIP	120K	5%	1/10W
R531	1-216-833-11	METAL CHIP	10K	5%	1/10W
R532	1-216-845-11	METAL CHIP	100K	5%	1/10W
R533	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R322	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R534	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R535	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R536	1-216-049-11	RES-CHIP	1K	5%	1/10W
R537	1-216-049-11	RES-CHIP	1K	5%	1/10W
R538	1-216-850-11	METAL CHIP	270K	5%	1/10W
< SWITCH >					
SW501	1-692-135-21	SWITCH, KEYBOARD (RESET)			

MISCELLANEOUS					

2	1-776-207-72	CORD (WITH CONNECTOR) (POWER)			
		(US,CND,E)			
2	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER)			
		(AEP,UK)			
58	1-790-375-22	CORD (WITH CONNECTOR) (SUB OUT (MONO))			
105	1-861-811-11	FLEXIBLE BOARD			
△ 203	8-820-207-02	OPTICAL PICK-UP (KSS1000E/K1RP)			
204	A-3337-640-A	CHASSIS (OP) SUB ASSY (including M901)			
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A			
M902	A-3337-638-A	MOTOR ASSY, SL (SLED)			
M903	A-3372-454-A	MOTOR ASSY, LE (LOADING)			
SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)			

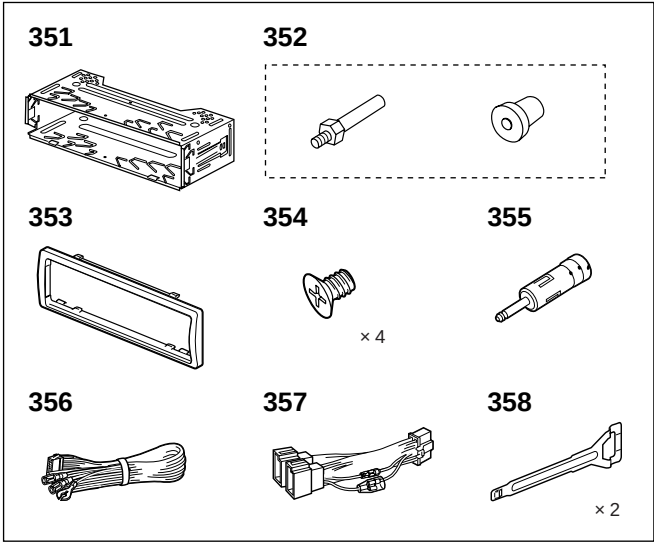
ACCESSORIES					

1-476-546-51	REMOTE COMMANDER (RM-X142) (AEP,UK,E)				
1-476-546-71	REMOTE COMMANDER (RM-X143A) (US,CND)				
3-230-549-01	LID, BATTERY CASE (for RM-X142/X143A)				
3-261-850-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH,SPANISH) (US,CND)				
3-261-850-21	MANUAL, INSTRUCTION (ENGLISH,GERMAN,FRENCH,ITALIAN,DUTCH) (AEP,UK)				
3-261-850-31	MANUAL, INSTRUCTION (ENGLISH,TRADITIONAL CHINESE) (E)				
3-261-851-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH,FRENCH,SPANISH) (US,CND)				
3-261-851-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH,GERMAN,FRENCH,ITALIAN,DUTCH) (AEP,UK)				
3-261-851-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH,TRADITIONAL CHINESE) (E)				

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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Ref. No.	Part No.	Description	Remark
PARTS FOR INSTALLATION AND CONNECTIONS			

351	X-3382-647-1	FRAME ASSY, FITTING	
352	X-3366-405-1	SCREW ASSY (EXP), FITTING (AEP,UK,E)	
353	X-3382-821-1	COLLAR ASSY	
354	3-934-325-01	SCREW (+K 5X8 TP) (US,CND,E)	
355	1-465-459-21	ADAPTOR, ANTENNA (AEP,UK)	
356	1-776-207-72	CORD (WITH CONNECTOR) (POWER)	(US,CND,E)
357	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER)	(AEP,UK)
358	3-246-471-01	KEY (FRAME)	



REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

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